CHEMICAL MARKETS

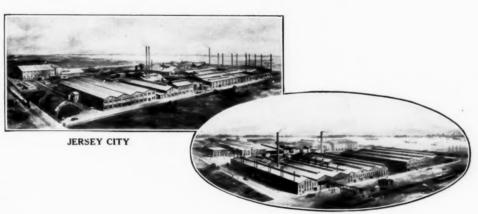
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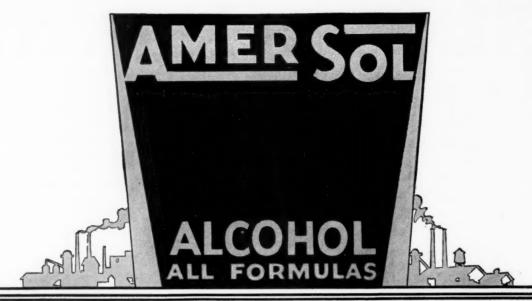
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Industrial

How Much Will a Dollar Buy?

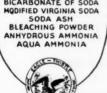
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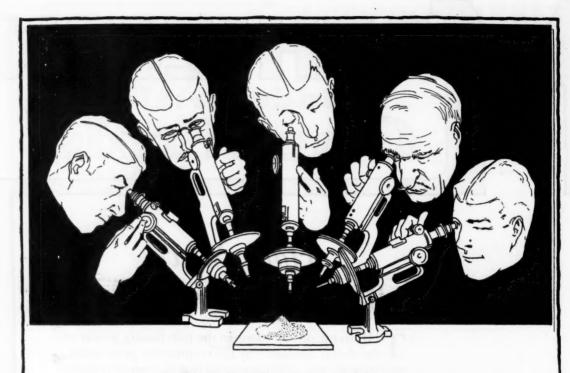
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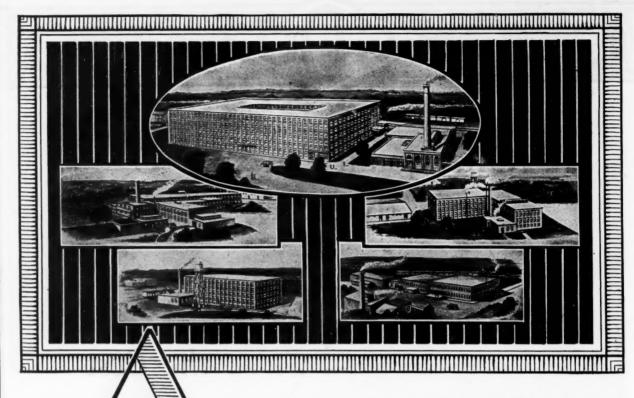
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ALCOHOL THROUGH THE AGES , NUMBER I



ALCOHOL - THE ORIGIN OF THE NAME

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CHEMICAL MARKETS

Vol. XXI

NEW YORK, OCTOBER 13, 1927

No. 15

The Tariff Again.

HAT ever-grinding rumor-mill that is set up in season and out at Washington has several times during the past two weeks caught the ear of the chemical industry. In the midst of much talk of the national candidates for 1928 and of tax reduction during the coming session of Congress, the tariff bobs up every now and then.

THE tariff controversy with France has to an unprecedented degree brought to the attention of American industry the international, political aspect of customs duties. Looking ahead, the chemical industrialist need not be gifted with second sight to see that the growth of chemical cartels abroad, the fulfillment of international chemical production and selling agreements, combined with the rapidly increasing importance of all sorts of chemical raw materials and chemical processes in many new phases of industrial economics, forecasts an increasing emphasis upon the chemical sections of national tariffs. This is a high powered economic weapon which will surely be used. To the domestic political angles of our tariff problems we can confidently expect the injection of international affairs.

A N even more immediate reminder of the tariff is the new report of the Dye Census. This valuable document is prepared fundamentally for tariff information and among its close packed facts is material for plenty of tariff argument.

The report bears evidence of distinguished advances in our dye industry. Domestic colors control the bulk of the market although the increasing importations of some of the finer, less common shades continues. A most encouraging technical advance is made in the domestic development of new dyes, products hitherto unknown to commercial chemistry. This is the bright side of the picture. The obverse reveals increased foreign production of dyestuffs, notably in Germany, Italy, and Switzerland. and the continuous strengthening of the German position in the big bulk markets of the Orient. The report confirms the common evidence that the Germans are making strenuous, successful efforts to regain this trade; that they are consolidating their gains; that most significant of all, they are employing the numerous chemical and commercial resources of the I. G., in ways which, thanks to the Sherman Law, are impossible for their American competitors.

THIS dye trade situation is an oft-told story. Repetition has made it almost a trite commonplace and stripped it of all the keen partisan interest which it aroused ten years ago. But the rapid expansion of the I. G. into other chemical fields and the permeation of their ideals and methods throughout other European industrial circles gives this well-worn problem of the American dye manufacturer a most significant meaning for other branches of the American chemical industry.

THE CHEMICAL EXPOSITION

The Eleventh Chemical Exposition is history. All in attendance—exhibitors and visitors alike—may look back on it as time well spent. New and interesting displays were an education to everyone.

There were, however, two impressions gathered which are deserving of comment. The first of these is the attempt made in some quarters to put the Exposition back on an annual basis, beginning with next year. While some favorable comment was heard on this proposed move, a large majority are convinced that an Exposition every year would be as useless as uninteresting. The prime reason for the Exposition is to educate the industry with the showing of new developments since the last Exposition. Even with the rapid strides made in the chemical and allied industries, admittedly the most rapidly developing in the country, an annual show would have little to offer of interest and the committee of exhibitors acted wisely in turning down the suggested revision in the schedule.

The second impression gathered was that the manufacturing chemical industry as a whole is the loser in refusing to exhibit at the Exposition. The present day Expositions might better be termed "The Exposition of Chemical Machinery". This aloofness on the part of a large portion of the industry is difficult to understand. Many of those who have exhibited for years past report a real benefit derived from the contacts and the friendships formed in addition to a fair share of directly resulting business. Certain it is that the lists of visitors contain the names of many men, whom salesmen of these same skeptical companies can never hope to see in their offices or plants, but who are willing and eager to talk business at the Exposition. In addition, there are new contacts to be made and it is a sad state of affairs that prevail, when at an Exposition sponsored by an industry of our size, but a mere handful of manufacturers are represented.

No rebuff to the Berthelot Memorial Committee was intended by the Council of the American Chemical Society meeting last month in Detroit, in its refusal to sanction participation of the Society in the Memorial drive. In declining, the Council stressed that its individual members may do as they see fit in the matter, explaining that the Society would not participate in any drive for a memorial to chemistry which has its inception in what is looked on as a national political move.

In an address before the Fifth Annual Chemical Banquet, Dr. L. V. Redman estimated that if a

chemical manufacturing concern hopes to avoid the present day pitfalls of stagnancy, between twenty five and thirty per cent of the annual income must be utilized toward the furthering of research work. Coming from one so well versed in the benefits derived from research, this assertion is worthy of careful consideration by executives in the chemical and process industries.

No one seems capable of predicting the future trend of the glycerin market. On the feature pages of this issue is an article on present conditions and the circumstances surrounding them. In passing it is interesting to note that producers, refiners and dealers alike, have modestly side stepped the issue of expressing an opinion as to the price movement. On the surface, this appears an admission of probable weakness, and well it might be, in view of the present state of the market.

The recent release of the Dye Census of 1926 by the Tariff Commission, shows an increase of two per cent in production over 1925. While this advance is not so spectacular as in the pioneer days of the industry in this country, it is reassuring to learn that the long dormant textile industries are stirring towards a revival of something closer to normal output.

[Ten Years Ago]

(From Drug & Chemical Markets, October 10, 1917)

S. Suzuki & Co., Ltd., Tokio, one of Japan's largest chemical companies, has opened an office in New York for the purpose of handling direct the New York business of their factories.

Union Carbide & Carbon Corp. has been incorporated as a merger of Union Carbide Co., National Carbide Co., Inc., Prest-O-Lite Co., Inc., and the Linde Air Products Co.

A contract for 12,000,000 pounds of picric acid to Aetna Explosives Co., and one for 1,000,000 pounds to Butterworth-Judson Corp., at a joint value of \$7,830,000, has been awarded by the United States Government.

Colgate & Co. Jersey City, has purchased twenty acres at Port Newark Terminal as a site for future expansion.

Federal Dyestuffs & Chemical Corp. went into the hands of John W. Herbert and Frank H. Platt, temporary receivers, appointed by Judge Hough of the Federal District Court.

Charles V. Bacon, well known New York oil chemist, has been appointed chief of the Oil Division, U. S. Bureau of Mines.

National Aniline & Chemical Co. is reported to have closed a \$500,000 order with the Japanese government for aniline dyes.

Phenol is now in strong demand, spot stock being quoted at 41c, drums extra, and 43½c, drums included.

Clycerin's Future

The Present Weak Position of Glycerin is Traceable to Foreign Competition, Failure of the Anti-Freeze Business Last Winter and Competition From Other Products in the Dynamite and Anti-Freeze Fields

HE patient is ill, but will recover" is the apt term used by a refiner of glycerin in describing conditions in the glycerin market of the country at the present time. This characterization about describes the prevailing opinion gathered by a representative of CHEMICAL MARKETS while interviewing producers, refiners and dealers last week.

However, the glycerin position is so fraught with potentialities and possesses so many interesting angles, that the subject can not be shunted aside by a mere statement that the market will recover.

There is no doubt that the current market for all grades from crude to chemically pure is weak. On this point all factors are in agreement, but there is some variance of opinion as to the cause of the weakness and just how far reaching the depression extends.

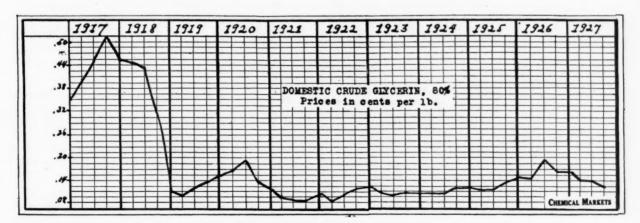
The prime reason for the softness of the domestic market can be attributed to foreign competition. The annual American consumption of glycerin is estimated at something over one hundred million pounds, probably one hundred and ten million pounds. During the War the production of domestic crude was greatly accelerated, so much so as to cover ninety-five per cent of the commercial and military requirements, resulting in a falling off in imports to about one tenth of the ordinary quota.

At the end of the War it was believed that a continuation of American production on a wartime scale would effectively shut out foreign competition. The fallacy of this opinion is most ably shown in the accompanying table of glycerin imports from abroad since 1906. The falling off in imports from 1915 to 1923, 1920 excepted, is accounted for by the War. The sudden jump in both refined and crude in 1920 is due to the fact that large quantities which were contracted for by the Allied governments, particularly

Italy, never left this country, but was resold here and classed as imported because of foreign ownership at the time of reentry. Since 1923 imports again tended toward normalcy, until 1926, when receipts more than doubled for the three year period. In fact, last years imports were exceeded in volume only by 1907, 1909 and 1910. Figures for the first six months of this year indicate that 1927 will be fully up to 1926 in the volume of glycerin imported.

Price is of course the prime factor in determining which of the two-domestic or imported-hold sway, and at the moment domestic producers see fit to undersell foreign competition with the result that imports have fallen off during the past two months. How long this condition will last is hard to say, for it is reported from one quarter in Germany, that that country's requirements have been taken care of for the season with some surplus remaining, and that producers there look to this country as the best possible market for this surplus. Conversely, glycerin is at best a by-product, controlled by tremendously wealthy interests here, and it seems unlikely that they would hoard stocks of crude glycerin rather than meet foreign competition. It is common knowledge that at this writing there are considerably more carloads of crude glycerin in the Metropolitan district than producers care to have, if they hope to get the market back on a firm basis before the turn of the year. As concerns the dynamite market, the powder makers, who take a large share of the annual production in the form of dynamite glycerin, are reported to be buying up to normal taking advantage of the weak market.

Producers and refiners alike are looking toward a good season in the anti-freeze business to help them over the present trying period. Contracts already written for glycerin in this field will assure a sale equal in volume to that of last year. This however does not offer much consola-



Since the close of the War, domestic crude glycerin has be en below current levels on several occasions,

tion, as the sale of all anti-freeze preparations last year was a dismal failure and the optimistic attitude of last Fall is partially responsible for the present weak condition of the market. It was well into the Spring of this year before a large bulk of the material produced for anti-freeze purposes was disposed of through other channels. The Glycerin Producers' Association is making vigorous efforts to educate the public on the use of glycerin as an antifreeze and is at present running full page advertisements in a magazine with a national coverage with this end in view. The fact that alcohol manufacturers will make no concerted effort to sell alcohol for anti-freeze consumption this Winter should assist the glycerin group to some extent, but on the other hand it is stated in some quarters that ethylene-glycol will partially take the place of alcohol as active competition for glycerin. Ethylene glycol is admittedly possessed of qualities which make it desirable for use as an anti-freeze, and it is learned from reliable sources that an effort has been made by the manufacturer to secure an organization with national retail distribution of gasoline and oil to handle the sale of it during the coming Winter. It appears that the glycerin factors are treat-

	Imports of gly	ycerin by	years
Year	Pounds	Year	Pounds
1906	32,193,000	1916	7,026,000
1907	43,680,000	1917	2,964,000
1908	28,114,000	1918	1,445,000
1909	41,536,000	1919	3,966,000
1910	39,862,000	1920	22,413,025
1911	36,280,000	1921	2,806,758
1912	29,574,000	1922	3,657,068
1913	38,243,000	1923	15,134,452
1914	24,787,000	1924	15,927,698
1915	15,616,000	1925	21,308,260
	1926		38,433,388

ing ethylene glycol rather lightly as competition, based on the argument that the price is much higher than glycerin and also that ethylene glycol is a manufactured product with definite costs, while glycerin is a by-product, with a price which can be changed as situations arise. While these arguments have their good points, it is a fact that in the dynamite market, where ethylene glycol is also seeking a foothold, the latter will most certainly act as a price stabilizer for glycerin and we are not likely to again see any runaway markets while the dynamite manufacturers can hold this club over the glycerin producers. Just to what extent the powder makers have become interested in ethylene glycol is not know, but there has unquestionably been some sale in that field and in some instances it is being used in combination with glycerin with marked success. For every pound of ethylene glycol used in either field, a like quantity of glycerin must find a market in another direction.

A third factor, which if true, will have a depressing effect on glycerin, is the oft repeated story of manufacturing glycerin from molasses mash at the Eastern Alcohol Corporation plant of Du Pont and National Distillers Corporation. Glycerin producers look on the possibilities of competition from this source a bit skeptically. Should the venture succeed commercially the producers will have occasion to worry, for this molasses glycerin is being manufactured in the plant of probably their largest customer.

Summing up, the producers have to combat the menace of foreign competition and competing products. These weapons are the fact that glycerin is a by-product their best forte—and the members of the Association are possessed of sufficient wealth to weather any price storm which can be anticipated at present. As concerns the immediate future no one looks to a strengthening of the market for some time to come unless an unprecedented anti-freeze demand sends the market soaring.

who's Who in the Chemical Industry

Osborne Bezanson, wks. mgr., Merrimac Chem. Co., Woburn, Mass. Born: Woburn, Mass., Nov. 10, 1888. Educat.: Woburn High School, Northeastern Univ. Mar.: Edith P. Buel, Woburn, Sept. 1912. Child.: four Bus.: Merrimac Chem. Co. since leaving school. Served as dept. supt., asst. to pres., wks. mgr. Mem.: Amer. Inst. Chem. Eng., Amer. Chem. Soc., Rotary Club. Hobbies: golf.

Edward P. Bosson, owner, Bosson & Lane, Atlantic, Mass. Born: Chelsea, Mass., Aug. 30, 1864. Educat.: Chelsea public schools. Mar.: Annie L. Marshall, Lynn, Mass., Oct. 20, 1891. Child.: two daughters. Bus.: Traveling salesman in Dyestuffs until 1895 when firm of Bosson & Lane was established; dir., Newton Trust Co., trustee, Newton Centre Saving Bank. Public Record: Alderman, City of Newton, Mass., 1905-09; Mass. State Guard, 1920. Mem.: Boston, Newton, and Quincy Chambers of Commerce; Associated Ind. of Mass.; Boston City, Home Market, Drysalters, Charles River Country, Laconia Country Clubs; Boston Credit Men's Assn.

Morgan H. Grace, pres., Phosphate Export Assn., New York. Born: Wellington, N. Z., 1880. Educat.: St. Patrick's Col., Columbia Univ. Mar.: Ruth Eden, Apr. 27, 1904. Child.: five sons. Bus.: pres., Coe Mortimer Co., 1901-12; pres., Phosphate Export Assn., 1919 to date. Public Record: Capt. & Major, Air Service, 1917-19; pres., Village of Great Neck, 1923-26. Mem.: Downtown Assn., Columbia Univ. Club, Piping Rock Club. Hobbies: tennis, boating.

Earl Wiley Hunnell, supt. Tallow, Grease & Fertilizer Depts., Pittsburgh Prov. & Pack. Co., Pittsburgh. Born: Pittsburgh, Educat.: Pittsburgh Academy. Mar.: Adina L. Nelson, Pittsburgh, Feb. 9, 1920. Bus.: Pittsburgh Prov. & Pack. Co., 15 years. Public Record: 223rd Aero Service Squadron, U. S. A. Mem.: Amer. Oil Chemists Soc. Hobbies: outdoor sports, motoring.

Adolph Lewisohn, senior member, Adolph Lewisohn & Sons, New York. Born: May 27, 1849; educat.: private schools of Hamburg, Germany. Bus.: Pres. and dir., General Development Co., Miami Copper Co., Tennessee Copper & Chem. Corp., South American Gold & Platinum Co. Mem.: National Arts, Economic. Criterion, Lotos, City, Engineers, Metropolitan Opera Club. Hobbies: Paintings, music, rare books, horticulture.

James L. Sapp, pres. J. L. Sapp; also pres. Prigden Supply Co., Broxton, Ga. Born: Baxley, Ga., June 1, 1876. Mar.: Rebecca Bell, Baxley, May 28, 1900. Children: two daughters, son. Bus.: operated at Baxley, Broxton, and Watcrosse, Ga., producing naval stores and mgr. pure gum spirits and rosin; in present bus. for 20 years. Mem.: Elks and other clubs.

Edward L. Winder, v. p., C. Ober & Sons Co., Baltimore, Md. Born: Wye House, Talbot Co., Md., June 4, 1858. Mar.: Mary D. Parker, Howard Co., Md., Oct. 15, 1884. Children: 2 daughters. Bus.: C. Ober & Sons Co., 1886 to date. Mem.: Merchants Club, Soc. of Cincinnati Sons of the Rey.

Selecting the Proper Lacquer Plasticizers

PERHAPS the most important detail in the manufacture of nitrocellulose and cellulose ester varnishes and lacquers is the correct selection of the solvent and plasticizer or softening agent. The results that are obtained in the use of the lacquer, depends to a large extent on the correct choice of these ingredients. The composition of the lacquer must be such that it will yield a dry film with the required physical properties and that it can be used in producing these results. The nature of the cellulose ester plays an important role in determining the properties of the lacquer, but we cannot deal with this subject in this article.

There are not so many esters that can be chosen between and furthermore it has been fairly well established just what effects can be expected from the use of one or another of these esters. On the other hand there are a great many solvents softening and plasticizing agents on the market to-day, and more are being added. These substances command different prices, possess different properties, and give various results. The real task in the manufacture of lacquers is in choosing the proper solvent and plasticizer, on giving best results at lowest cost.

Action of Solvent

When a nitrocellulose lacquer evaporates, it leaves a film containing some of the original solvent, which will gradually evaporate, although it may take months before film is entirely free of the solvent, even then traces may still be found. The presence of the solvent allows the lacquer film to remain soft but as the solvent evaporates the film becomes harder and it becomes more difficult for the remainder to evaporate. Hence a state of equilibrium is really never reached. The time that it takes for all of the solvent to evaporate and leave the film brittle depends on various factors, such as the volatility of the solvent, the temperature, and the thickness of the film. The only factor which is under the control of the lacquer maker is the volatility of the solvent.

It has been found advantageous to use such a solvent that it will leave the lacquer film with the greatest rapidity and thus leave it in a brittle state, and in order to avoid the film attaining such a condition it is common to use plasticizing agents. It is a misnomer to call these substances softening or plasticizing agents in that they lead to the belief that a soft film is desired, for the film must be highly elastic and non-shrinking and at that the same it must possess a hard surface which is scratched with difficulty only. Furthermore the film must adhere firmly to the undersurface, a property which is intimately connected with its elasticity. One important condition that must be remembered in advocating and selecting plasticizers for use in making lacquers is that these substances must be solvents of the cellulose esters.

We shall first concern ourselves with the plasticizers or

In an effort to find the ideal solvent and plasticizer much work has been done. There is given in this article a comprehensive list of the developments to date in all parts of the world.

softening agents. One of the most important of these substances is diacetin. This substance has a boiling point of 260 degrees C. It is used in making cellulose acetate lacquers. It has a tendency to absorb water from the atmosphere and it is somewhat volatile, in fact too much so for lacquers which have to possess a high degree of stability. It may also generate acid which is also a disadvantageous property of the substance. Nevertheless it is a good plasticizer.

Triacetin, which is closely related to diacetin, is a substance of almost the same boiling point, namely, 258 degrees C, but it is a better plasticizer than diacetin. It is less volatile, is not

hygroscopic, and does not become acid.

Various butyl esters have been found to be good plasticizers, such as butyl phthalate, butyl stearate and butyl tartrate. Butyl alcohol has also been used for this purpose. Butyl stearate has a boiling point of 360 degrees C. It is found that a lacquer containing this substance, particularly when used in conjunction with amyl phthalate, which is also a plasticizer, will give a film of high polish. Butyl tartrate, also a valuable plasticizer, is commonly used in conjunction with triphenyl phosphate. It has a boiling point of 292 degrees C, possessing a high degree of plasticizity. Butyl phthalate, having a boiling point of 312 degrees C, is one of the most popular plasticizers. Its properties and effect are similar to those of amyl phthalate.

Amyl and Ethyl Esters

The amyl esters are also used as plasticizers. Thus amyl phthalate, with a boiling point of 340 degrees C, is one of the best. It also has a good solvent action on nitrocellulose and resins which may be used in making the lacquers. The products manufactured with its aid, leave behind a film which is resistance to weather influences, perfectly elastic and stable. Thus it is used in the proportion of ten to one hundred per cent of the weight of the nitrocellulose in such lacquers, from three to five per cent by weight in the case of esters resin products and as much as fifteen per cent in making hard resin products. The film obtained with the aid of the phthalate plasticizer possesses more strength than the triphenyl phosphate film.

Amyl oxalate, with a boiling temperature of 265 degrees C, has been recommended as a plasticizer, but it is not used to any extent as it does not appear to have any advantages over less costly products. The same disadvantage is incurred in the use of amyl tartrate, although this substance has been proven to be a very high grade plasticizer, giving hard films which resist well weather influences. The cost of the product is however too high.

Certain ethyl esters are also good plasticizers. Thus ethyl oxalate, with a boiling point of 185 degrees C, is a good plasticizer with solvent properties. Nevertheless it

must not be used where the requirements of plasticity is at a maximum. This is also true of ethyl phthalate which is claimed to be inferior in plasticizing properties to

amyl phthalate.

A plasticizing agent, which is used exclusively in manufacturing cellulose acetate varnishes, is resorcinol diacetate. This substance possesses two disadvantageous properties, one being that it will cause the lacquer film to become brown after a time, and also it is high priced.

Tricresyl phosphate has long been known for its plasticizing properties. It has a boiling temperature of 430 degrees C. It can be used in large proportions in making the cellulose ester varnish and lacquer. It has the effect of reducing the inflammability of the product and when it is used in conjunction with ester resins, a lacquer is obtained which yields a film of great hardness and high polish, perfect elasticity and great resistance to weather influences. Triphenyl phosphate, another plasticizer, with a boiling point of 410 degrees C, is very similar in its action to tricresyl phosphate.

Benzyl alcohol is another important softening agent with solvent properties. It has a boiling point of 200 degrees C. and may be used with advantage as the medium in grinding pigments for lacquer enamels. Benzyl alcohol is really a softening agent and should be used in conjunction with a low boiling solvent and a high boiling plasticizer.

Cellulose Acetate Plasticizers

Quite a few plasticizers are only suitable for making cellulose acetate lacquers. A number of these appear on the market under various trade marked names. Thus dibenzyl ether, known as Erganol O, is a useful acetate plasticizer. It is a colorless liquid, strongly refractive and insoluble in water. It has a boiling point of 298 to 300 degrees C, a flame temperature of 135 degrees C and a density of 1.035 at 15 degrees C.

Cresyltoluene sulphonate is another plasticizer which will also gelatinize nitrocellulose. Its commercial name is Mittel KP. It is brownish colored liquid, oily, possessing a slight odor and easily soluble in various organic solvents. Its flame temperature is 184 degrees C and

its density 1.207 at 15 degrees C.

Ethyltoluene sulphonate is an excellent solvent and plasticizer for nitrocellulose as well as cellulose acetate. Its trade name is Mittel AEP. It is a solid and comes in coarse crystals with a melting point of 31 to 32 degrees C. The substance has a neutral reaction, an agreeable odor and is easily soluble in various organic solvents. However it is quite a poisonous substance and must be

handled with a great deal of care.

Within recent times interesting softening agents have been created by the esterification of glycol ethers with orthophthalic acid. One of these products is known as Softener PM and is the methyl glycol ester of orthophthalic acid. It is an oily liquid, almost colorless and odorless. Its reaction is neutral and it exerts a very good solvent action on nitro-cellulose and cellulose acetate. Its boiling point is 230 degrees C, flame temperature 187 degrees C, specific gravity at 15 degrees C. 1.1708, molecular weight 282 and ester number 397.

Another product is Softener A, which is the ethyl glycol ester of orthophthalic acid. It is a solid and in the form of colorless, easily-fusible crystals or neutral reaction and almost colorless. It forms colorless oily liquid in the molten condition which can be mixed with any of the common organic solvents in desirable proportions. The product will gelatinize cellulose acetate as well as nitrocellulose. Its boiling point is 233 to 235 degrees C, melting point 33 degrees C, flame temperature 1.1229, molecular weight 310 and ester number 361.

Two colorless, crystalline substances with a flowery

(Continued on page 532)

New Incorporations

Sun Chemical Co., Oakland, Cal., \$50,000; H. P. Karl, Erna

arsen. Franklin Lacquer and Chemical Corp., New York City, \$10,000. J. Traub, 29 Broadway, New York. Excelsion Chemical Co., Buffalo, N. Y., chemists, \$25,000. M.

Franklin Lacquer and Chemical Corp., New York.

Excelsior Chemical Co., Buffalo, N. Y., chemists, \$25,000. M.
Lipsitz, Buffalo.

Chase Varnish Co., Long Island City, \$5,000. \$40,000. Remsen &
Parsons, 60 Wall St., New York City.

Havre Products, Chemicals, Queens County, 200 shares common
stock. H. E. Goldschmidt, 105 W. 47th St., New York City.

Standard Fertilizer Co., Williamston, N. C., \$50,000, fertilizers.
Douglas Chemical Co., Wayeross, Ga., \$20,000, insecticides. H.
Vickers, Jr., R. C. Cobb, Mrs. H. Vickers, Jr.

Florida Mineral Products Co., Ft. Myers, Fla. Lee Hyde, Richard L. Heverle, R. A. Henderson.

Hitchens Products Corp., Wilmington, Del., metal polish, \$10,000.

Corporation Trust Co. of America, Wilmington.

Mountain Oil Corp., Plattsburg, N. Y., \$50,000, dyes, paints.
Feinberg & Jerry, Plattsburg.

Thomas Cotton Co., Cleveland, Miss., \$100,000. Cottonseed oil
null. N. P. House, Fred Matthews, H. L. Weistein.

Jacmar Products Corp., Brooklyn, N. Y. \$10,000, paints, enamels.

Lewis, Marks & Kantor, 50 Court st., Brooklyn.

Ladle Ring Corp. of America, Buffalo, N. Y., 1,000 shares common stock, chemicals, ores. W. McK Taylor, Buffalo

Century Chemical Co., New York City, 100 shares common stock, chemicals, ores. W. McK Taylor, Buffalo

Century Chemical Co., New York City, 100 shares common stock, disinfectants. C. E. Murphy, 32 Broadway, New York.

Gilette Herzog Chemical Corp., Grand Rapids, Mich., \$50,000.

Clonial Charter Co., Wilmington, Del.

Charleston Manufacturing Co., Detroit, Mich., \$100,000, chemicals.

American Guaranty and Trust Co., Wilmington, Del.

Chemical Research Laboratories. New York, \$10,000. B. Indig, 299 Broadway, New York City.

Ferran Laboratories, New York, \$250,000, chemicals. M. Travieso, 27 William st., New York, \$250,000, chemicals. M. Travieso, 27 William st., New York, \$250,000, chemicals.

Walter Morgan Co., paints and varnishes, authorized capital

\$50,000, Wilmington, Del.

Superior Chemical Products Co., Washington, \$200,000, motor fuel, medical and chemical p

10,000, Wilmington, Del. Superior Chemical Products Co., Washington, \$200,000, motor nel, medical and chemical products; Colonial Charter Co., Wil-

fuel, medical and chemical products; Colonial Charlet Co., this mington, Del.

Pheonix Oil and Transport Co, \$1,000,000, oil, gas, sulfur; Corporation Trust Co. of America, Wilmington, Del.

Acme Laboratories, New York, paints, drugs, \$10,000. J. Parker, 150 Broadway, New York City.

Dayco, Buffalo, N. Y., dyes, paints, \$100,000. C. B. Moulthrop, Ruffalo.

150 Broadway, New York City.

Dayco, Buffalo, N. Y., dyes, paints, \$100,000. C. B. Moulthrop, Buffalo.

Louisiana Lignite Co., Wilmington, Del., Minerals, 5,000 shares no par stock. Corporation Trust Co. of America, Wilmington.

Hannon Tire and Rubber Co., Ltd. Toronto, 10,000 shares of no par value. Ernest C. Bogart, Ross Kennedy and Edith M. Bogart.

Harding Carpets Ltd., Brantford, Ont., \$1,000,000 and 20,000 shares of no par value; textiles; Hugh J. McLaughlin, Roland. F. May, William W. McLaughlin.

Savoy Trading Co., Ltd., Ottawa, Ont. \$1,000; textiles. Earnest G. Gowling, Clarence C. Baker, John B. Mulvey.

Transalpine Co., Ltd., Ottawa, Ont. \$1,000; textiles. Earnest G. Gowling, Clarence B. Baker, John B. Mulvey.

Ritz-Carlton Perfume Corp., New York City, \$50,000 in preferred shares of common. B. Austin, 302 Broadway, New York.

L'Ame, toilet articles, New York, \$100,000 in preferred stock, and 1,000 shares common. C. Rush, 141 Broadway, New York City.

Mee Dee Products, toilet preparations, New York, 200 shares common stock, O. H. Droege, 405 Lexington Ave., New York City.

Perfumes, Ltd., New York City.

Perfumes, Ltd., Nontreal, Quebec, Canada, \$20,000, perfumes, lotions, chemicals.

Scholler Brothers, Ltd., St. Catherines Ont., \$50,000 to manufacturer soan, Lames G. Schiller, Cacill S. Kennedy, Alien Express

lotions, chemicals.

Scholler Brothers, Ltd., St. Catherines Ont., \$50,000 to manufacturer soap. James G. Schiller. Cecil S. Kennedy, Aileen Farmer.

Anwood Oil Co., Ltd., Rosetown, Saskatchewan, Canada, 500,000 shares no par to manufacture oil products. James A. Woodward, Thorold Anderson, Chester A. Lamborn.

S. F. Lawrason and Co., Ltd., London, Ontario, Canada, 1,500 shares, no par. To manufacture soap. Albert E. Wells, Theodore C. Margarett, Carrie E. Baker.

Thorold Anderson, Chester A. Lamborn.
S. F. Lawrason and Co., Ltd., London, Ontario. Canada, 1,500 shares, no par. To manufacture soap. Albert E. Wells, Theodore C. Margarett, Carrie E. Baker.
A. S. Herrmann, Ltd., Montreal, Quebec, Canada, \$10,000. To manufacture textiles. John B. Mulvey, Clarence C. Baker, John

manufacture textiles. John B. Mulvey, Clarence C. Baker, John A. Currie.

Kipps Products, Ltd., Windsor, Ontario, Canada, 5,000 shares no par, to manufacture chemicals. James L. Braid, Stanley L. Springsteen, Harvey L. Barnes.

T. L. Dwyer & Co., have incorporated under the laws of Delaware, capitalization \$100,000, for rayon converting, dyeing and winding. The company will be represented for corporation purposes by Franklin L. Mettler, Wilmington, Del.

E. H. Rayner Ltd. Montreal, Que. \$100,000 and 1,000 shares no par value, dyes, and dyestuffs. Elijah H. Rayner, Rudolph C. Williams, and Charles Helen.

Montreal Coated Papers Ltd. Montreal, Que. \$50,000, paper. John L. Bishop, Claude S. Richerdson, and Alexander G. Yeoman. Chemical Products Corp., Nyack, N. Y. C. L. Jordan, 149 B'way. Manhattan, 50,000.

Rudy Health Corp., chemical preparation, A. L. Fiorillo, 165 B'way., New York, 20,000.

Dutchess County Humus Corp.

Bayway Industrial Chemical Co., Elizabeth, N. J. Abe J. David, 2500 shares common.

(Continued on page 546)

(Continued on page 546)

ew Developments at the Chemical Exposition

T is estimated that over 75,000 persons attended the Eleventh Exposition of Chemical Industries, held in Grand Central Palace, New York, during the week of September 26. This increase of about 7,000 over the figures of the previous year is a fitting tribute to the exhibitors and a result of the instructiveness and attractiveness of their exhibits. These displays ranged from skinless sausages to

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involved chemical and machine processes, but, whether motivated by scientific interest of merely curiosity, those who attended came to see something new. Anticipating this, many of the exhibitors featured recent developments, resulting in a real exposition of the advance of the Chemical industry in two years.

A general consensus placed the booth of Commercial Solvents Corp. high in the list of exhibitors for the good taste and attractiveness which was apparent in its lay out. Attention was focused upon a large colored diagram illustrating the relationship and derivatives of their chief products—butanol, methanol and acetone. An educational motion-picture display of methods of their manufacture, their use as solvents in lacquers and the application and fast drying properties of lacquer attracted considerable interest.

Among the myriad displays of the Bakelite Co., the monophone, which has been accepted as standard equipment by the American Telephone & Telegraph Co., was

Chemistry has made great progress in two years. We summarize here many of the new developments shown at the recent Exposition, which brought to light some interesting advancements.

of principal interest. It was stated that Bakelite has an exclusive contract for this type of telephone.

The booths of Erinroid Co. of America, Karolith Corp. and American Machine & Foundry Co. were viewed with much interest. All of these firms, revealed the accomplishments of a comparatively new industry, the manufacture of plastics from casein. Abalon pearl was the feature of Erinroid Co's booth. It

is a casein plastic with the hue and general appearance of pearl and is being introduced to the pearl button manufacturing field. This was only one of the varied developments of this line, others include, poker chips, paper cutters, umbrella handles, knife and door handles, toilet articles.

The chronological procedure for distilling wood products was shown by Cleveland-Cliffs Iron Co. A tree, depicting both the derivation, manufacture and ultimate consuming use of wood derivatives was one of the clever features of the exposition.

The exhibit of American Chemical Society attracted many visitors by showing dry ice, its efficiency and economy, together with a simple display of the action of carbon monoxide its chief component. New developments in acid resisting chromium metal and the lacquer solvent field shared interest with a showing of the practical usage of skinless sausages.

A new development in glass-lined tanks was shown by



Guests at The Chemical Industries Banquet, Hotel Roosevelt, New York, September 28.

Alsop Engineering Co., New York. Formerly, tanks were merely lined with glass, which being under high tension, broke very easily. The tanks on display were completely covered with glass thus, it is claimed, equalizing the tension and reducing breakage. This company also displayed the largest portable mixer made, 5 h.p., and a new filter which reverses the old process, filtering from the center to the outside, thus giving double filtering area.

In addition to various U.S.P. chemicals and pharmaceuticals of their manufacture, Sterling Products Co., Easton, Pa., gave an interesting description of the process of making real color pictures of the crystals of various chemicals. It is claimed by this company that, so far as it knows, such pictures have never been made or attempted before, all previous reproductions having been photographed and then colored by hand.

The advantages of their new sulfuric acid concentrators made of fused silica over the old cascade system was emphasized by the Sidio Co. of America. It is claimed for their method that it is more economical because of the larger surface heated and that it makes possible the recovery of electrolyte making residue.

A new roulette comparetor, was prominently displayed by LaMotte Chemical Products Co. This is an improvement on former models in the sense that test tubes, when placed in a revolving device, may be turned at will with one hand. It is also a material assistance in making comparisons between standards and samples being tested.

Probably the most extensive displays at the exposition was shown by U. S. Department of Agriculture. The display covered in detail the work and aid rendered by the Department and attracted a great deal of attention by their feature offering, a campaign against dust explosions. An animated picture, illustrating the complete destruction of a plant by dust explosion and urging care in preventing them, was impressive.

Darco Sales Corp. was featuring the use of "Darco" decolorizing carbon in the treatment of fruit juices which for any reason have become discolored without loss of flavor. Samples were shown before and after treatment with Darco with the latter sample practically water white

and ready for canning.

Two open faced tables in which phthalic anhydride was packed formed a striking background for the display of the Selden Company's latest outlets for this product. These displays were slabs of bakelite and "clyptal" a synthetic insulating resin made by General Electric Co.

Eastman Kodak Co., offered a complete line of photographic chemicals as well as a representative display of their entire line of some 2300 chemicals. The relation of chemicals to the photographic industry was shown from the early stages of production to the final step, which was in the nature of a miniature motion picture show which was viewed with interest.

The presentation of a complete wood distillation plant, in miniature, showing the inner workings of crushers, stills, acid chambers and the entire procedure in the production of wood chemicals, was the feature of the display of Ford Motor Co. Through the utilization of shavings from wood parts of motor-cars this company manufactures methyl alcohol and its various by-products on a large scale.

The Matheson Co. featured a glass tank containing a bunch of bananas which were being ripened overnight by the use of ethylene. Although this process was developed over a year ago in the laboratories of the University of Minnesota, it use on a commercial scale is just being successfully introduced.

In exhibiting the many uses of corn, Iowa State Uni-

versity featured the utilization of corn stalks as a substitute for cork with a mixture of linseed oil, for making linoleum.

Much interest was attracted by the recently perfected amyl chloride of Sharples Solvents Corp., which this company was exhibiting for the first time in company

with pentasol and pentacetate.

Lightness and strength, without corrosion was claimed by the Aluminum Co. of America, New Kensington, Pa., for its new "Alclad", a strong aluminum alloy coated with aluminum, which is being introduced into the seaplane field. It has the advantages of being absolutely rust proof as well as very light and serviceable.

Bachmeier & Co., Inc., New York, had a colorful display consisting of various materials which had been dyed with the aid of their new level dyeing and penetrat-

ing compound, "Baco Penet".

The industrial application of activated carbons, such as "Nuchar", especially in the refining of oils, fats and greases, was emphasized by the display of the Industrial Chemical Co.

The varied uses of alcohol were emphasized by the exhibition of finished products shown at the booth of Kentucky Alcohol Corp. which ranged from incense and soaps to illustrations of the efficiency of alcohol when used to prevent water freezing in automobile radiators.

An animated, electrically lighted, colored display of the various processes involved in extracting sulfur from its beds and transforming it into the finished product formed the background for Texas Gulf Sulphur Co's display.

Kuttroff-Pickhardt & Co., presented an attractive grouping of German chemicals. Synthetic methanol, synthetic nitrogen, plastols, tamasols, ethylene glycol and butyric acid derivatives.

A very attractive booth set off the display of Mathieson Alkali Works, featuring a line of heavy alkalies, including caustic soda, chlorine, soda ash, and bleaching powder as well as their "Commonwealth" brand of con-

diments, vanillin and coumarin.

The foregoing description does not of course include the many manufacturers of chemical equipment who form a very important part of each Exposition. Such firms as Corning Glass Works, International Nickel Co., Buffalo Foundry and Machine Co., General Electric Co., Bethlehem Steel Co. and the Dorr Co. displayed their standard lines and also the booths of the Southern railroads showing the natural resources of the country covered by their lines were both attractive and instructive.

The Industry's Bookshelf

STANDARDS AND TESTS FOR REAGENT AND C. P. CHEMICALS—By Benjamin L. Murry. Cloth bound, 560 pages. Published by D. Van Nostrand Co., New York.

Many of our chemists are familiar with Mr. Murray and the first edition of this book and have accepted it as an indispensable guide in testing and insuring the purity of chemicals. Recognizing the expansion of chemical importance since his first issue, the author has not only made changes toward simplified and more accurate testing and also added processes for testing the new reagent chemicals but also has augmented his previous efforts by including the field of C. P. chemicals. Full descriptions of the physical properties of chemicals, action of light and air precautions to be observed in storing, and physical constants of chemicals, are given. As an instance, we choose at random, sodium hydroxide from sodium and find 18 detailed methods of testing its purity. This book is not only an able aid to the chemist but also serves the manufacturer with standards for chemicals that he can produce economically on a commercial scale.

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Chemistry's Business Guages

An Accurate Knowledge of the Industry's Producing and Consuming Capacities is the Great Need of the Day, said Edwin E. Judd, Editor "Industrial Digest" in an Address to the Students Course at the Recent Chemical Exposition.

A S I strolled about among the exhibits here the other night, I was particularly impressed by the many instruments shown for the measurement and recording of temperatures and pressures. It occurred to me that a very close parallel might be drawn between the use of these gauges in the production department and the use of the various indices of business conditions by your executive and sales departments.

These pieces of equipment have been evolved to meet your needs for precise information as to what is going on inside your various vats and retorts at all times. In the early days the chemist worked pretty much by rule of thumb aided by the highly cultivated sense of touch, smell or sight obtained through long practice. There are still processes in which such rule of thumb methods prevail, but you have made tremendous strides in obtaining exactitude in your processes through your ability to regulate temperatures and pressures to a nicety. If this thermometer shows a reading that is a little too high, or that gauge drops a little too low, you are given warning that some particular action is necessary.

Time was, and not so very many years ago, when sales and production policies rested chiefly upon the personal observations and opinions of the proprietor. If his judgment was good, or he was lucky in his hunches, the enterprise prospered.

We spoke of him as a keen-minded business man and perhaps elevated him to the rank of captain of industry. Of course, what often seemed like good luck or uncanny foresight simply represented the result of a lot of real hard work in gathering facts, plus a sound sense of logic which permitted the drawing of correct deductions from those facts.

With the expansion of industry and the broadening out of markets, it became impossible for any one man to compass sufficient territory by his personal observations. If he wanted a foundation of full knowledge of the facts pertaining to his particular industry and his markets, he had to rely somewhat upon the observations of his representatives.

The progress along this line during the past decade and a half has been particularly rapid. Partly because of the stimulus given to production by the world war, and the keen struggle for business since then which has made the maximum efficiency imperative. Partly because of the severe lesson taught the present generation of business men during the slump of 1920-21. Partly, too, because of the wonderful support and encouragement given to commercial reporting by the Department of Commerce under the direction of Secretary Hoover.

We have today at our command reports on commodity movements that were scarely dreamed of as recently as the years just before the world war. We know more about actual consumption requirements and production capacities

than ever before in our history. In a few industries reports have been perfected to such a degree that it is now possible to tell, within a reasonable margin of error, the normal consumption requirements of this country, the current rate of consumption, the stocks on hand, and the rate of production. Such industries are in position to keep their outputs in line with actual requirements, neither breaking prices through over-production nor business through inability to supply merchandise that is needed.

In other industries the reports are less complete, but still sufficient to be of real assistance, while in others we have still a long way to go. I am sorry to say that a good many divisions of the chemical industry fall within the latter category. There is room for a great deal of work to be done in the chemical industries before the elements of chance and guesswork are reduced to their proper minimum.

Not only have we made remarkable progress in getting at the facts about commodity movements, but we are moving forward in the interpretation of such data. Just as the chemists in the research laboratories are constantly testing new combinations and searching for underlying principles, so are the statisticians and economists assaying this mass of economic data. Many of the relationships between different commodity movements are as complicated as any formulas. The state of the monsoon in India may seem far removed from production program of an American dyestuff company. And yet the connection may be very direct and vital. A favorable monsoon means good crops, a heavy Indian demand for cotton goods, dyes wherewith to color the same, and there you are.

The working out of many of these relationships is a task for specialists. But the results of their work can be of direct and tangible value to you as working members in the business of chemical production. And make no mistake about it. Just as the business world has come to a very keen appreciation of the necessity for watching new developments in the chemical field, lest it wake up to find a new synthetic product walking off with a market that seemed as safe as gold in a Federal Reserve vault, so must the chemical industry keep abreast with the progress made in the science of business administration.

Rather I should say, the art of business planning. Some day we may have a real science of business, but we are still in the experimental stage, grouping toward that goal. We have not yet reached the point where we can set up a certain formula and say that because of this factor and this factor and this factor, such and such a development is bound to follow. We may never reach that stage, because there are too many variables in the equation. But we can say that because of this group of known factors, such a result is probable. Then, if we take cognizance of the known variables and their possible effects, we have a pretty sound basis upon which to build any production or sales program.

There are certain major factors that the business analyst

wants to know about any given industry or commodity. They are consumption, production, stocks and price. Given any two of the first three over a fairly long period and we can calculate the third, just as you can complete the triangle given two sides and an angle, or two angles and a side. Price plays in and out through all these calculations, stimulating or retarding production or consumption, as the case may be.

Just as we establish certain basic points of desired temperatures and pressures in chemical processes, so the business analyst attempts to set up some sort of normal against which to make his measurements. We try to find, for example, what is the normal consumption of any given commodity in this country, as a basis for calculating production requirements. In doing this it is necessary to make allowance for the growth in the population. For that reason, we endeavor to reduce consumption figures to rates per capita, even when dealing with commodities which do not enter directly into consumption by the individual. In the final analysis, all commodities are made for direct or indirect consumption by the mass of the people, and the demand therefor is likely to expand as population increases. Thanks to the work of the census bureau and the actuaries, we have very accurate factors of population growth on which to base these calculations.

In making long-range prognostications as to demand, such as are required in planning plant expansion for years to come, we are chiefly concerned with these factors of average per capita consumption, the increasing rate of such consumption, if any, due to increased buying power, and the probable growth in population. We can only hope to strike the average. In 1932, demand may be somewhat above average, because of good crops and other factors making for general prosperity, or it may be below the average, because of a temporary depression.

Having established the probable consumption for any given future period, we have the basis on which to figure production and sales programs. We want to produce enough to meet the demand, and at the same time avoid overproduction. We want sufficient reserve stocks to take care of any sudden expansion in demand, and sufficient extra production capacity to take care of a reasonable excess over normal requirements. But we do not want any more money tied up in idle plant than is absolutely necessary.

Knowing the rate of growth in total demand for a certain product and the share therein to be reasonably expected by an individual company, the management is in position to plan production and sales intelligently, whether it be for a long period ahead or for the immediate future. In a number of companies, including at least one big chemical producer, probable demand schedules are worked out this way.

A long-time forecast is made, based on the known average demand and the probable increase therein, and the expected share of the company in that demand. This is used as a guide for the making of longtime contracts for materials, purchases of property, expansion of plant, and other parts of the program that require time to carry out.

Another forecast is made, commonly on an annual basis, of needs for the current period. This takes into account the present trend of business and the prospects for its continuance, as well as the normal rate of growth. Let us say that allowance is made for an increase of a fraction over 1 per cent each year as a result of the growth in population, and that this is raised to 2½ per cent to cover the increase in purchasing power per individual. In the particular case that I have in mind the sales manager arbitrarily increases this rate a little—up to say 3 per cent—to cover the increased share of the total business of the industry which he believes his own company should get.

(Continued on page 534)

[Foreign Trade Opportunities]

		* *	
Bluing Fertilizers	27383 27374	Alexandria, Egypt Agency Lausanne, Switzerland Purcha land.	se
Insecticides	27384 27368	Bergedorf, GermanyPurcha GibraltarBoth Hamburg, GermanyBoth Alexandria, EgyptBoth	se
Paints, varnishes, and metal polishes. Pyroxylin sheets (nonin-	27415	Batavia, JavaBoth	
flammable). Automobile cleaning com-	27116	Berlin, GermanyPurcha	se
pound, liquid, in barrels. Borax, boric acid, carbon- ate of soda.	27135	Hamburg, Germany Purcha	se
Borax, granulated, crys- talized, white.	2/115	Pirns, GermanyAgency	
Butyl acetate, butyl alco-	27108	Sydney, Australia Purcha	
Calcium chloride	27112	Montreal, Canada Purcha Hamburg, Germany Both Bucharest, Rumania Agency Sydney, Australia Agency Altona, Germany Purcha Hamburg, Germany Agency	se
white lead, and phosphate of lime Glue stock	27164 27155	Hamburg, GermanyPurcha Bremen, GermanyPurcha Hamburg, GermanyPurcha	se se se
Oils, essential	27150 27099 27107	Hamburg, GermanyAgency San Salvador, C. AAgency Hamburg, GermanyAgency	,
low. Resins, artificial, and gums.	27108	Sydney, Australia Purcha	
Rosin Rosin Rosin and sulfur Rosin and sulfur Rosin and turpentine Rosin and turpentine Rosin, turpentine, wood oil.	27151 27109 27117 27104 27149	Hamburg, GermanyAgency Milan, ItalyAgency Sydney, AustraliaAgency Hamburg, GermanyAgency Hamburg, GermanyPurcha Hamburg, GermanyAgency Hamburg, GermanyAgency	se
Chemicals		Nairobi, British East Agency Africa.	
Chemicals, industrial Colemanite powder Dental chemicals Dyes, pigment Explosives Fertilizers, chemical Gas, compressed Insecticide adhesive for tree trunks.	27231 27232 27237 27206 27207 27209 27231 27273	Altona, GermanyAgency Wiesbaden, Germany Purcha Mannheim, GermanyAgency Meiningen, GermanyAgency Bogota, ColumbiaAgency Quebec, CanadaAgency Altona, Germany	r r r r
Magnesium oxchloride Naval stores Oil, orange Paints	27230 27274	Sydney, Australia Purcha Hamburg, Germany Agency Hamburg, Germany Agency Buenos Aires, Argen- Agency tina.	7
Paints and varnishes Paints and varnishes Quassi wood Rosin Rosin and sulfur Solvents for cellulose lacquers.	27207 27213 27256 27234 27272 27206	Bogota, ColumbiaAgency Sydney, AustraliaAgency Genoa, ItalyPurcha Kobe, JapanPurcha Hamburg, GermanyPurcha Meiningen, GermanyPurcha	se se se
Zinc oxide	27271 27362 27330	Turin, ItalyAgency DanzigAgency Calcutta, IndiaPurcha	
Chemicals, metallurgical Coal-tar pitch Fertilizer Paints, varnishes, insulating compounds.	27363 27307	Stockholm, SwedenAgency Lille, FranceAgency Toronto, CanadaAgency Milan, ItalyAgency	7
Soda ash caustic soda Bicarbonate and caustic soda, soda ash, carbide, etc.	27329 27496	Trieste, ItalyAgency Caracas, VenezuelaAgency	,
Matches, safety and ordin-		Cardiff, WalesPurcha	
Paints and hoiler com-	27496 27509	Hamburg, Germany Purcha Caracas, Venezuela Agency Toronto, Canada Agency	se
pounds Paints and varnishes Phosphate, hardrock and	27479 27450	Rio de Janeiro, Brazil Agency Hamburg, Germany Agency	
pebble, Florida Pigments, earth, especially orange and lemon oxide	27498	Dusseldorf, Germany Purcha	se
Rosin Borax Celluloid in sheets, inflammable, and noninflammable.	27496 27629 27592	Caracas, VenezuelaAgency Hamburg, GermanyAgency Milan, ItalyBoth	
Copper sulphate		Patras, GreecePurcha Prague, Czechoslovak- Agency	se
Glycerin		Hamburg, Germany Purcha Rofterdam, Nether- Purcha lands.	se se

[News and Markets Section]

Organic Chemical and Dye Gains in 1926

Synthetic Organic Chemicals Increase 37 Per Cent Over 1925 Production
Ethylene Glycol Production Up—Solvents Also Show Gains—Coal
Tar Dyes Increase 2 Per Cent for the Year—European Dyestuff
Conditions.

(Special to CHEMICAL MARKETS)

Washington, D. C., Oct. 10-Domestic dye and organic chemical industries made notable progress during the year 1926 according to the tenth annual Census of Dyes and Other Synthetic Organic Chemicals issued this week by the U. S. Tariff Developments Commission. year to year since 1917 in the manufacture of dyes and other finished coal-tar products are unparalleled in the history of the American, chemical industry. During 1926 domestic dves supplied 93 per cent of the apparent consumption, and there was, in addition, an exportable surplus of nearly 26,000,000 pounds, as compared with 1913 when 13 per cent of the dyes consumed were produced in this country, chiefly from imported intermediates. A significant feature of the year is that many of the new dyes are of purely American development, as contrasted with the development in former years of types previously made in Europe.

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The manufacture of synthetic organic chemicals of noncoal-tar origin is increasing so rapidly that in value of products it bids fair to rival coaltar chemicals in the near future. The production of 214,842,313 pounds in 1926 is a 37 per cent increase over that of 1925. Sales in 1926 were 168, 712,158 pounds valued at \$29,719,270. The manufacture of solvents of noncoal-tar origin has reached large proportions. Of these the largest increase in production was shown in butanol, butyl acetate, ethyl acetate, amyl acetate, and ethylene glycol. The large production of ethylene glycol in 1926 was of more than usual interest because of its recently developed use as a partial substitute for glycerin in the manufacture of antifreeze dynamite. Ethylene glycol has promise as an anti-freeze agent for automobile radiators.

There was notable progress in fast and specialty dyes, including those for dyeing rayon and mixed fabrics. The production of vat dyes established a new record, with a total of over 4,- 000,000 pounds, compared with 2,600, 000 pounds in 1925. None of these dves was made in the United States prior to the World War. The increase in domestic production is of interest to every consumer of fabrics as a matter of economy. Many domestic textile manufacturers have in recent years put on the market a variety of fast dyed fabrics of cotton and of linen marked with a trade name bearing a guarantee as to their fastness to washing and light. It is probable that colored textiles will soon be marked according to their fastness. A large variety of products or commodities are now graded and sold according to definite standards, and it is logical that the same policy should be adopted by the textile industry.

The total production of coal-tar dyes by 61 firms in 1926 was 87,978,-624 pounds, an increase of 2 per cent over the previous year. Sales in 1926 totaled 86,255,836 pounds, valued at \$36,313,648, at a weighted average of 42 cents per pound, or 10 per cent less than the corresponding average price during 1925. The average price in 1917 was \$1.42 per pound. The competition between domestic dye manufacturers is severe, and resulted in 16 fewer firms engaged in production in 1926 than in 1925.

The imports of dyes during 1926 were 4,673,196 pounds, valued at \$4,-103,301, representing a decrease of 10 per cent in quantity and 11.5 per cent in value, as compared with 1925.

Exports of dyes in 1926 increased slightly in quantity, but decreased 11 per cent in value, as compared with 1925.

Competition among the dye-producing nations of the world has been severe, particularly in the sale of the cheaper bulk colors to China, British India, and other non-producing nations. The trend toward the increased use of fast dyes, including vat dyes and other high priced colors, continues and promises to increase.

A number of international agreements were negotiated in 1926 between important groups of the producing nations for the purpose of stabilizing prices and reducing the severe competition, possibly by a division of world markets. It is reported that the German interests have negotiated agreements with Japanese, French, and Swiss industries.

Germany continues to make organized efforts to regain her former dominance of the world's dye markets. In 1926 the Interessen Gemeinschaft greatly expanded its operations by gaining control of several German chemical companies occupying important positions in related branches of the chemical industry. It is reported that the capital increase of the Interessen Gemeinschaft from 646 million reich marks in 1925 to 1,100 million reich marks in 1926 will be used in extending its nitrogen plants and in erecting new plants to utilize the Bergius process of liquifying coal,

Germany has been successful in extending her export trade, particularly in the higher priced dyes; her prewar trade in the cheap bulk colors, such as indigo and sulphur black, has not been recovered.

In Great Britain the chemical industry, as well as other industries, was seriously affected by the coal strike of 1926. The British, like the Germans, have formed mergers which make it possible to conclude trade agreements with similar large groups in other countries.

In Switzerland the dye industry has suffered from the effect of increased competition on indigo.

Italy has increased her production of dyes in recent years. The Italians have begun the manufacture of synthetic indigo for which they have a modern plant with an annual capacity of over 3,000,000 pounds.

A new antioidant for rubber products, called Neozone, has been developed by E. I. du Pont de Nemours & Co., Wilmington, Del. It is designed to prevent deterioration and loss of strength and elasticity of rubber due to oxidation. The company states that it has been thoroughly tested for use on various types of rubber compounds and that although the product is classed as an antioxidant, it is equally effective in improving resistance of rubber compounds to high temperatures regardless of whether oxygen is present.

Japan Subsidizes Indigo and Soda Ash

Government Acts Favorably on Report of Investigation Committee—Total Dyestuff Subsidy Increased to 8,000,000 yen—Protection Extended to Seven Years—Encouraging Funds to be Given Soda Ash.

(Special to CHEMICAL MARKETS)

Tokyo, September 23-The Japanese Government finally has established the basic policy for artificial indigo and soda ash industries, acting upon the resolution adopted by the special committee of the Commerce and Industry Investigation Commission organized by the Government. The protective policy in the form of subsidy will be administered to indigo and soda ash. For the protection of indigo, the Government has decided to include it into the list of subsidized products and increase the amount of subsidy for all kinds of dyestuffs from ven 4,000,000 to yen 8,000,000. The term of protection was extended from six to seven years. For the latter the Government is to give proper amount of encouraging funds instead of the fixed subsidy.

The resolution submitted by the commission and adopted by the Government is: "The dyestuff industry forms the axle of the chemical industry, and has made a rapid growth here, due to the protective policy of the Government. Still there are many kinds of dyes that cannot be made here, though more than half of the entire demand in Japan is supplied by home products. It is greatly regretted that artificial indigo is being imported mostly from foreign countries. This is due to the fact that special technical difficulties are encountered in indigo manufacture. Japan has completed the technical study and succeeded in experiments but circumstances prohibit Japan from commencing business. The Government should take steps to encourage its production to establish the foundation."

BRITISH SULFATE SALE
TO JAPAN EXPANDING

(Special to CHEMICAL MARKETS) Tokyo, Sept. 20-Competition threatens to develop in sulfate of ammonia between Ahrens Co., and Brunner, Mond & Co. Orders secured for the autumn dressing are estimated at 14,000 tons in German stock and 55,-000 tons in British stock. This has reversed condition prevailing last year and is considered a success for the policy of the British firm. The import price is the same but the elimination of subagents enable the British firm to place the stock in consumers' hands at yen 3 lower. In these circumstances German sulfate will lose its footing. The German company is consulting its agents, the Mitsui Bussan and Mitsubishi Shoji. Reduction in price is suggested, doing away with the policy of fixing prices by yen 1.20 for shipment for the following three months, but the suggestion does not appear to be practicable. The company is of the impression that the root of the matter lies in tight money, making the farmers' budget a severe one. Brunner, Mond & Co., expects to call a conference of its 24 agents in Japan shortly to lay down a selling program. German sulfate is quoted at yen 128 on spot, yen 126 for stock on the way and yen 125 for August-September loading.

CELLOSOLVE LOWER

The prices of cellosolve and cellosolve acetate were radically reduced last week. Reduction amounts to approximately 8c lb. for l.c.l. quantities, making the new schedule read as follows: Cellosolve, single 50 gal. drums, 27c lb. or \$2.09 gal., l.c.l. lots, 25c lb. or \$1.94 gal. and carload drums, 23c lb. or \$1.79 gal. The new prices for cellosolve acetate are; single 50 gal. drums, 30c lb. or \$2.43 gal., l.c.l. drums 28c lb. or \$2.26 gal. and carload drums, 26c lb. or \$2.10 gal.

Dr. W. C. Moore, U. S. Industrial Alcohol Co., addressed a joint meeting of the New York and North Jersey sections of the American Chemical Society at the Chemists Club, Oct. 7, on the "Application of Physical Chemistry to the Alcohol Industry."

Dr. Charles H. Herty, Chemical Foundation, and T. Alfred Fleming, National Board of Fire Underwriters, spoke at the regular meeting of the North Jersey section of the American Chemical Society at the Washington Restaurant, Newark, Oct. 10, at eight o'clock.

Old Father Time and a modern business man are featured on a novel card which is being mailed to members of the National Paint, Oil and Varnish Assn., Inc., as a reminder that the Fortieth Annual Convention will be held at Atlantic City, Oct. 26, 27, and 28.

FRENCH CALCIUM ACETATE DUTIABLE AT 20 PER CENT

Under mandatory provisions of the tariff act providing for imposition of countervailing duties on imports from a nation which assesses duties in excess of the American rate, calcium acetate imported from France is now subject to a duty to 20 per ent ad valorem, in accordance with paragraph 1541 in the free list. This paragraph provides 'that if any country imposes a duty on calcium acetate when imported from the United States, an equal duty shall be imposed upon such article coming into the United States from such country" This is the only chemical involved to date in the new rate changes between this government and that of France.

The United States has imported about 4,000,000 pounds of calcium acetate a year recently, but little, if any, of this has come from France, the larger part of the imports coming from Canada.

HAMBURG MARKET STRONG

(Special to CHEMICAL MARKETS)

Hamburg, Sept. 29, (By Mail)—Business in heavy chemicals has shown a gradual improvement during the past two weeks. Based on good sized orders the domestic market for sodium sulfide, sal ammoniac, naphthaline, oxalic acid, lactic acid and caustic potash has been good.

Prices for bromides have been weaker at the factories and offers direct to the consumers have been low. Citric and tartaric acids and glycerin are neglected. Pharmaceuticals are experiencing a good demand except caffeine, which is lower.

Richard Sheldrick, organizer and president, North River Chemical Corp., New York City, died at his home in East Orange, N. J., last week after an illness of six months. He was sixty-three years old and had been prominent in the chemical industry for thirty years, formerly serving as secretary of the Kalbfleisch Corp., New York City.

Mathieson Alkali Works, New York, has appointed F. H. Lovenburg, formerly St. Louis district sales manager, to a similar capacity in the New England district at Providence, to replace C. J. Clegg, who has resigned.

J. Sidney Tremoulet, for twentyfour years manager, New Orleans branch, Grasselli Chemical Co., and since 1925 manager, Birmingham, Ala., branch, died last week after a brief illness.

Sulfuric Acid Output Lower in First Half 1927

Government Canvas Records Decline From Corresponding Period During 1926—Acid Phosphate Production Also Lower by 21.6 Per Cent—Reports Received From 172 Manufacturing Establishments.

(Special to CHEMICAL MARKETS)

Washington, D. C., October 12, 1927.-Dept. of Commerce announces that fertilizer manufacturers during the first half of 1927 produced 779,079 tons of sulfuric acid and consumed 853,888 tons in the manufacture of 1,563,700 tons of acid phosphates containing 26,-893,000 units of 20 lbs. available phosphoric acid. The production of sulfuric acid by fertilizer manufacturers was thus equal to 91.2 per cent of their total consumption. Acid phosphates sold as such amounted to 1,107,014 tons, containing 18,758,000 units of available phosphoric acid; and 1,299,254 tons of acid phosphates, containing 21,-350,000 units were consumed in the manufacture of other fertilizers.

Statistics for the first half of 1927 as compared with those for the first half of 1926 show decreases of 21.6 per cent in production of acid phosphates and 6.3 per cent in total sales of acid phosphates, an increase of 7.6 per cent in stocks of sulfuric acid on hand at the end of the period, and a decrease of 13.1 per cent in stocks of acid phos-

phates.

The statistics are based on the reports of 172 establishments, of which 114 are located in the Southern district, distributed by States as follows: Alabama, 16; Arkansas, 1; Florida, 6; Georgia, 35; Louisiana, 5; Mississippi, 6; North Carolina, 18; South Carolina, 19; Tennessee, 7; Texas 1. The remaining 58 establishments are located in the Northern and Western districts, distributed by States as follows: California, 2; Illinois, 4; Indiana, 5; Kentucky 1; Maryland, 7; Massachusetts, 2; Michigan, 1; Montana, 1; New Jersey, 4; New York, 1; Ohio, 17; Pennsylvania, 4; Virginia, 9. The manufacture of sulfuric acid was reported by 56 establishments in the Southern district and 25 in the Northern and Western districts.

GERMAN POTASH SALES INCREASE DURING 1927

Washington, D. C., Oct. 12—Potash sales in Germany increased to 715,-094 tons potassium oxide during the first half of 1927 from 601,450 tons in the 1926 period, reports Assistant Commercial Attache Daniel Reagan, Paris to the Department of Commerce.

Despite the large increase in Ger-

man sales the French output of potash, which has been increasing steadily since the war declined slightly the first half of 1927, sylvinite having reached a total of 1,157,300 tons compared with 1,135,100 in 1926. The potassium oxide production was about equal at 184,000 tons.

CANADA PEST CONTROL ACT EFFECTIVE OCT. 1

(Special to CHEMICAL MARKETS) Toronto, Ont., Oct. 7-The Agricultural Pests Control Act regulating the sale of economic poisons passed at the last session of the Canadian Parliament became effective Oct. 1st. The act applies to insecticides, fungicides, germicides, weed killers, rat and gopher poisons, sheep dips. The manufacturer or importing agents must register economic poisons with the Seed Commissioner, Ottawa. Every package must be labelled to show the name and address of the manufacturer, brand name, registration number, the word "poison" and symbol thereof if harmful to human or animal life in any sufficient degree, antidote for the poison, guaranteed analysis of the contents, and the net quantity by weight or volume. Present stocks and containers which do not comply with the act and regulations must be removed from sale by July 1, 1928.

The I. G. has acquired the rights to operate the Lilienroth electric furnace processes, covered by German patents Nos. 406, 411 and 409, 344, at the Piesteritz plant of the Mitteldeutsche Stickstoffwerks, according to Consulate General Hamilton C. Claiborne, Frankfort on Main. It is reported that the output of phosphorus will be 70 metric tons a day. The I. G. has patented improvements of the Lilienroth process which are registered under the German patent Nos. 408, 925, 423, 275, 431, 504, 435, 387, and 438, 178.

RUSSIAN CHEMICAL TRUST

Soviet Russia has decided to form a syndicate of chemical plants to minimize internal competition and to increase sales according to a report from Berlin. Its capital is 11,500,000 rubles and it will include Coal-Chemistry Trust, Northern Chemical Trust, Moscow Chemical Industry, Trust, Aniline Trust, Lacquers Trust, Benzol Trust, and Wood-distillation

SECOND HEARING HELD ON CAUSTIC POISON ACT

(Special to CHEMICAL MARKETS)
Washington, D. C., Oct. 12—A
second conference was held at the
Department of Agriculture on last
Friday in connection with the proposed regulations for the enforcement of the Federal Caustic Poison
Act at which retail druggists, who
were unable to attend the first conference because of their annual convention, were given a chance to tell
the department of their thoughts on
the regulation.

Amony those attending this conference were Prof. James Beale, Urbana, Ill.; John Tierney, secretary of the Manufacturing Chemists Ass'n.; and Carson P. Frailey, secretary American Drug, Manufacturers Ass'n. Walter G. Campbell presided.

Prof. Beale spoke of the inconsistencies in the law while Mr. Tierney told something of the legislative history of the law and said that information in the hands of Congress in drafting this bill showed that beyond lye products no cases of poisoning were cited. The first conference was held on September 20 and the arguments made then were largely repeated at this second conference.

A general meeting of the Society of Chemical Industry, the first American general meeting since 1912, will be held in New York the week of Sept. 3, 1928. It precedes the meeting of the American Chemical Society the week of Sept. 10.

The American Section will hold a joint meeting with the Societe de Chimie Industrielle, American Chemical Society and American Electrochemical Society at eight o'clock, Nov. 4, at the Chemists' Club. An informal dinner at seven will precede the meeting.

Charles E. Mullin, Philadelphia consulting chemist, has joined the faculty of Clemson College as Professor of Textile Chemistry and Dyeing. He is a fellow of the American Institute of Chemists and is the third American to be elected a fellow of the Textile Institute of England. He is also a member of the American Chemical Society and the American Association of Textile Chemists and Colorists.

Mathieson Alkali Works' Bulletin No. 271 deal with chemicals for the petroleum industry, especially those involved in the Mathieson hypochlorite process for treating petroleum distillates.

NEW DU PONT DYES

Ponsol Brown AR Double Paste and Pontacyl Light Red 4BL are the names of a new vat dye and acid dyestuff which have been put in the Dyestuffs Department, E. I. Du Pont de Nemours & Co.

Ponsol Brown AR Double Paste is described as a bright reddish brown of extremely good fastness to light, washing and chlorine, suitable for dyeing on all types of machines and especially valuable for dyeing fauns, tans, browns, olive drabs for Government use, and similar shades. Pontacyl Light Red 4BL is exceptionally level dyeing and very fast to light, being particularly suitable for dyeing mode shades in combination with other fast to light acid colors or acid alizarine colors, producing taupes, grays, fauns, etc., for woolen goods requiring the maximum light fastness such as upholstery materials and fine dress goods.

S. O. C. M. A. CAN CARE FOR DOMESTIC REQUIREMENTS

In connection with the tariff problems now existing between this country and France, and still awaiting solution. August Merz, president, Synthetic Organic Chemical Mfrs. Assn., has sent a letter to the administration expressing the hope that some other method than a retaliatory tariff may be found to settle the problem, but emphasizing the fact that "the volume and variety of synthetic organic chemicals could easily be increased to care for all our domestic requirements" and that "the most drastic provisions invoked against the products of the similar industry of France would work no hardship on the American consumers of such pro-

In commemoration of the 100th anniversary of the birth of Marcellin Berthelot, "father of organic synthetic chemistry", Paul Claudel, French Ambassador, Dr. Charles H. Herty, Chemical Foundation, Prof. Theodore Richards, Harvard University, and Dr. John H. Finley will speak at a dinner at the Ritz-Carlton Oct. 25.

United States Civil Service Commission announces open competitive examinations for Junior Chemist and Senior Aid in Laboratory Technique, each \$1,860 a year. Application for the former must be on file with the Civil Service Commission at Washington, D. C. not later than Oct. 29, and for the latter, not later than Nov. 12.

September Cottonseed Oil Sales Large

The following market report and chart by W. A. Storts of Edw. Flash Co., are resume of the cotton-seed position for September.

September 28, 1927

Census report showed August consumption refined oil 339,323 bbls. larger than generally expected. Seed receipts during August were also heavy, comparatively.

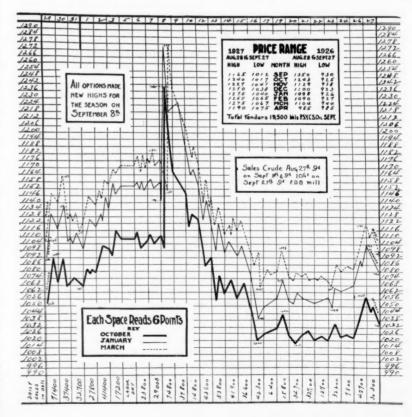
Prices of cotton oil "futures" and crude today are very close to prices prevailing one month ago, although in meantime, due to Census report on cotton and speculative influences, the market advanced 134c per lb. September 8th and 9th, and has been easier ever since, today selling at practicaly same prices that prevailed one month ago.

"Futures" on New York Produce Exchange are very active, with a broad market prevailing at present. During the month of August, there were 603,600 bbls. of oil traded in, and during the month of September almost 800,000 bbls. traded in on Exchange, indicating the thorough approval of this market and easiness to get in and out of on good size quantities.

Crude is not moving as freely as usual at beginning of a new season, but heavy ginning returns indicate enormous quantities of seed available and seed, from reports, has been moving heavily. There should be large volume handled during October, and pressure from this seed may result in the continuance of heavy hedge selling of "futures".

Tomorrow is first tender day for October and there will probably be 8,000 to 10,000 bbls. of oil tendered, as the warehouse stocks are very heavy at present. It is impossible to forecast just what effect these tenders will have, but probably will result in somewhat widening the differences between October and "futures". Indications at present are that these tenders will move into consumptive channels without creating much change in prices.

The market is unquestionably a two-sided affair at present. With heavy seed and crude movement in prospect, the time for a permanent advance seems inopportune, but, on a fair decline from present levels, we believe that both March and May oil could be bought without great risk.



[The Industry's Finances]

Davison-Pyrites Combine Interests in Cuba

Interchange of Stocks Figures In Deal—Two New Davison Directors— Jones & McLaughlin Dividend—New Cyanamid Issue—Columbia Carbon Ouarter.

An interchange of stock whereby the Davison Chemical Co., Baltimore, and Pyrites Co. Ltd., will combine interests in the Cuban properties of the Baltimore corporation has been agreed upon and consummated, according to report from authoritative sources. The Davison Co. has listed 90,000 additional shares of stock on the New York Stock Exchange, to be exchanged for a like amount of Pyrites Co. shares, the latter being a subsidiary of Rio Tinto Co., London, which is believed to have virtual control of the pyrites situation. Lord Denbigh, a director of the Rio Tinto, and A. D. Ledoux, of the Pyrites Co., are to be directors in the Davison Co. The value of the stock given to Davison is guaranteed by Rio Tinto which owns all the Pyrites stock. One result of the arrangement is to be the erection at Curtis Bay of a large copper bleaching plant, which will take the sinters from the pyrites ore used by Davison and extract therefrom pig iron and copper. This will make it unnecessary to ship the sinter to Rio Tinto's plant at Wilmington. Contracts with the Pyrites Company for a supply of ores have been entered into for a term of years, and the economies made possible by the welding of interests will contribute to the Davison revenues. In this connection as stated in Oct. 6 issue of "CHEMICAL MARKETS," Silica Gel Corp., a Davison subsidiary has just arranged for the issuance of \$1,700,000 debentures 61/2 per cent five year notes and for

Foreign Exchange

	Par	Current
Great Britain (pound sterling)	4.866	4.867
France (franc)	.193	.039
Italy (lira)	.193	.054
Belgium (frans)	.198	.139
Czechoslovakia (crown) per 100	20.30	2.96
Denmark (krone)	.268	.268
Germany (mark)	.238	.238
Holland (forin)	.402	.401
Poland (zloty)	.193	.114
Norway (krone)	.258	.264
Spain (peseta)	.193	.175
Sweden (krone)	.268	.269
Switzerland (frane)	.193	.193
Argentina (peso)	.414	.427
Brazil (milreis)	.324	.119
Japan (yen)	.499	.466
India (rupee)	.485	.364
China (Silver dollar, Hongkong)	.789	.489
(Tael-Peking, silver)	1.146	.650
(Tael-Shanghai, silver)	.1.986	.618

the sale of \$500,000 in no par common stock to a group identified with the directorate. The debentures will give holders the right to buy shares of Silica Gel at any time within five years at \$30; a share in the ratio of seven shares for each \$1000 of the debentures held. The proceeds will be used to reimburse Davison company and for advances amounting to \$1,500,000 and to provide working capital. It is also proposed to build a plant for Silica Gel who will enter upon a period of active development.

Jones & Laughlin Steel Corp. report for three months ended Sept. 30, will show less net income than preceding quarter, which returned \$3,576,079 or \$4.45 a share on common stock, it is reported in the "Wall St. Journal". Net income for the first nine months of the year also was less than in the corresponding period of 1926 when \$11,759,556 or \$15.29 a share was earned on the common.

Amoskeag Co., Boston holding company, reports for year ended May 31, 1927, surplus of \$350,358, compared with \$308,798 the previous year. Amoskeag Mfg. Co., controlled by Amoskeag Co. reports for year ended June 30, 1927, profit of \$66,054, compared with a loss of \$3,565,104 for the thirteen months ended June 30, 1926.

Turbize Artificial Silk Co. has declared quarterly dividends of $1\frac{1}{2}$ per cent on preferred stock, payable Oct. 1, to stockholders of record Sept. 20, and the same amount on preferred payable Jan. 2, 1928, on stock of record Dec. 20.

Swan River Tire & Rubber Co. has been incorporated at Toledo, O., with capital of \$50,000 in preferred stock and 1,000 shares of no par common to manufacture rubber tires for children's vehicles and similar products.

Columbian Carbon Co. declared the regular quarterly dividend of \$1, payable Nov. 1, to stock of record Oct. 18.

NEW CYANAMID ISSUE

American Cyanamid Co. placed \$5,000,000 of 15 year sinking fund 5% debentures on the market last week through the Guaranty Co., Alex. Brown & Sons, and Brown Bros. & Co. The debentures are priced at 94 and interest, to yield about 5.60 per cent, maturing Oct. 1, 1942. It was also announced that average net earnings for five years ended June 30, 1927, amounted to \$1,568,130, or more than 4.57 times interest charges on the total funded debt to be outstanding with the completion of the present financing.

Proceeds of this issue are to be used for additions to plant facilities, diversification of the company's products and for other corporate purposes connected with future development.

Earnings of William Wrigley Jr., Co., Chicago, for three months ended Sept. 30 will establish record for any quarter in history of Company and barring adverse developments in final three months of year, 1927 will be best year since company was established, according to "Wall Street Journal". Wrigley should earn close to \$10,000,000 this year after taxes and all charges, equal to \$5.55 a share on 1,800,000 shares of no par stock. In 1925 and 1926 net earnings were about \$9,100,000 or \$5.05 a share.

Certain-teed Products Corp. has declared the regular quarterly dividends of \$1 a share on common and \$1.75 a share on first and second preferred, payable Oct. 1 to holders of record Sept. 17. Officers of the company stated that July net profits were well ahead of July last year and that August sales were ahead of August last year. Eight months' profits ended Aug. 31 are expected to exceed those of the like period of 1926.

American Solvents & Chemical Co. voting trust certificates for common stock have been admitted to unlisted trading privileges on the N. Y. Curb Exchange and the common stock has been removed from trading.

Richards Chemical Works, Jersey City, N. J., will erect a four-story plant, 100 by 250 feet, cost about \$100,000, to be used for the production of chemicals for renovating silks. About 300 hands will be employed.

Red Star Yeast & Products Co., Milwaukee, has filed plans for a three-story addition to be equipped as a mechanical drying unit, to cost about \$45,000.

Stocks & Bonds

		1926	1927		Current		
	High	Low	High	Low	Bid	Asked	
•Air Reduction	146%	1071/2	1991/8	1341/2	175	178	
*Allied Chem	148%	106	161%	131	1581/2	159	
*Allied Chem. pfd	122%	118%	1241/2	120	1221/4	123	
*Am. Ag. Chem. pfd.	34 % 96 1/2	9 35%	14 % 51 %	8 1/8 28 1/4	131/4	14	
*Am. Can.	63 1/2	38%	61%	43 %	64 1/8	64 1/4	
*Am. Can. pfd	130%	121 36 %	138	126 25	133 1/2 25	136 40	
*Am. Cyan, "A" *Am. Cyan, "B"	47	3514	35	29	25	29	
*Am. Linseed *Am. Linseed pfd	52 %	25%	50	201/4	491/4	50	
*Am. Metals	87 57%	68% 421/4	81 46%	46% 38	80¼ 42	81 42%	
*Am. Metals pfd.	120	1131/2	112	107	1091/4	110	
Am. Rayon Prod.	35% 152	29 % 109 %	16	31/2	12 %	14	
*Am. Smelting pfd	122%	112 %	172¼ 131	132% 1194	168% 130%	169 1/2 131	
*Am. Zine	. 12%	5%	101/4	7	6	61/6	
*Am. Zine pfd	. 101	9734	51 1/4 108	39 93	36 93	36 1/2 93	
*Archer-Dan-Mid.	. 34%	36	47	38	46	47	
*Archer-Dan-Mid, pfd	. 108	100	100%	951/4	1101/	***	
Atlas Powder		90% 54	96 1/4 65	86 561/4	85 1/4 63	861/4 63 %	
*Atlas Powder pfd	. 97%	96	105	98	93	105	
*Brooklyn Un Gas	98	68	136	89 %	1361/2	138	
*By-Products Co. *By-Products Co., pfd.		53	921/2	66 105	72 109	75 112	
*Calla L & Z Canad. Ind.	2%	11/6	2 %	11/4	11/4	11/2	
Canad. Salt	145	1614	371/4 115	14 105	36% 105	37¼ 115	
Casein Co	26	16	191	149	165	175	
Celluloid Corp. Celluloid Corp. pfd.	0	55	105 110	16 63	105 91	105 91	
*Certainteed Prod. Charceal Iren	. 491/2	36%	55%	42	511/4	511/6	
		45	40 115	73	36 1091/4	40 115	
Clark Co. Fred	. TS	694	86	99	96	99	
Columb Carbon	70%	55%	89	66 1/8	87	89	
*Cont. Can	091/	1181/4	384	223 58%	184 731/4	184 1/4 73 %	
*Cont. Can pfd	. 126	117%	77% 127	120	124	1251/2	
*Corn Prod. pfd.	51% 130%	35%	63 1/4 132 1/4	46 % 128	57% 135	137	
Davison Chem	40.8/	271/2	341/2	261/2	36 1/2	371/4	
*Davison Chem., pfd. *Devoe & Rayn A *Devoe & Rayn 1st pfd.	10436	31	43 1/2	43 37	43 1/2 37	43 1/2 39	
*Devoe & Rayn 1st pfd *Dow Chem	105	40	110	101	1101/2	112 1/2	
*DuPont deb.	1101/4	100%	98% 115%	100	100 115	100 1151/4	
*Eastman Kodak	181 1/4 136 %	157	334 1/2	168	335	337	
*Freeport Texas	36	106%	173 1/2 90	126¼ 34	166 1/2 89 1/2	168 90	
*Gen. Asphalt	941/4	94 %	96 %	72 1/2	741/4	74 1/2	
*Glidden	25%	15%	144 %	113	115 % 15 %	117% 15%	
*Gold Dust Grasselli	145	120	68 1/8	42	681/2	68 1/8	
Grasselli, pfd. Hercules Powd. pfd.	103 1/2	102	132 103	125 100	131 101	132 103	
nouseheld Frod.	115 48%	110 40	122	115	118	122	
Industrial Rayon Int Agr.	19 %	101/4	60 1/2 8 1/2	431/4	651/4	65 101/4	
*Intl. Agr. pfd.	261/4 95	9 1/s 57	10 1/8 65	6 1/s 33	9 471/2	10 48	
*Intl. Nickel	461/4	32%	75	381/2	67	671/4	
MacAnd & Forbes	84 1/6 46 1/4	611/2	72 431/2	65 40	63 1/4	69%	
*Mathieson Alk. *Mathieson Alk. pfd.	106 % 105	621/2	124%	82	113	115	
Merck & Co	78	100 57	112 86	103 65	112 71	113 74	
Merrimac Natl. Dist.	83	72 121/4	80	73	75	80	
*Natl. Dist. *Natl. Dist. pfd. *Natl. Lead	. 731/4	57	51 % 69 %	17 431/4	46 % 55	461/2 59	
*Natl. Lead *Natl. Lead pfd. "A"	. 101	138 116	200	160	1201/2	122	
N. J. Zine	. 21436	180	138 206	1171/4 202	136 186	138 188	
*Owens Bottle	99%	53% 71	841/2	751/8	773/4	771/2	
*Peoples Gas Chi	. 131	117	91 150½	74 103 %	84 ½ 103 %	91 103 %	
Proc. & Gam. Royal Bak Pdr.	. 163	1421/	222 240	157	220	222	
Royal Bak Pdr. pfd.	. 10534	102	260	161 99	159 255	260	
*Sherwin-William *St. Joseph Lead	108	108¼ 36%	110 43 %	60 36	60 37	60.	
Silica Gel	22%	11 %	19	131/2	19	37 1/2 19 1/3	
Swan & Finch pfd Swift & Co.	110	110	30 12014	20 1001/2	20 100¼	30 100 1/2	
Tenn C & C	16	10 %	131/4	8 1/8	8 %	8%	
*Texas Gulf & S *Union Carbide	142	1191/2 78	175½ 144½	76 98%	75 % 132 %	76 133	
*United Dye pfd.	58	58	49	381/4	341/2	40	
Un Gas Imp. *U. S. Gypsum	144 1/2	84 1/8 126	113 110	106 107	110 1031/2	110 % 108	
*U. S. Ind. Al. *U. S. Ind. Al pfd. *Va Car 65% w	841/2	45%	89	69	76	77	
*Va Car 6% w 1	114 % 69	90¼ 31%	120 43	107¼ 26⅓	118 391/4	120 40	
				78	74	.0	

GERMAN VEREIN PLANS PRODUCTION EXPANSION

An issue of 2,500,000 marks new common shares of Verein fuer chemische Industrie, Frankfurt on Main, raising the latter's common share capital to 6,500,000 marks, has been admitted to trading on the Frankfurt exchange, according to Trade Commissioner W. T. Daugherty. The "Verein" with Holzverkohlungindustrie dominates the German wood distillation industry. The capital increase is reported to be for "extension of production". It is doubtless related to proposed plans for production of activated carbon, to partly escape competition with the German Dye Trust's new synthetic methanol. The "verein" has plants at Bruecken bei Birkenfeld in Oldenburg, Friedrichhuette in Oberhessen, Greifenhagen in Pommern, Laufach in Bayern, Lorch am Rhein, Lohe in Westfalen, Neheim Huesten in Westfalen, Zueschen (Kreis Brilon) Oeventrop in Westfalen, and Mainz-Mombach. The three last named refine the crude product to acetone, acetic acid, methanol, solvents, formaldehyde, cellulose-acetate, etc.

Among other properties, the "Verein" participates in the ownership of Chemische Fabrik Vossowska, G. m. b. H., Upper Silesia, Fabryka Chemiczna Gzichow Spolka Akcyjna, Warsaw, Chemische Werke Carbon G. m. b. H., Ratibor, Upper Silesia and Chemische Fabrik Jueterbog G. m. b. H., Jueterbog near Berlin. The two last named companies produce activated carbon for which the "Verein" entered a 30-year community of interests at the beginning of 1927 with N. V. Allgemeene Norit Maatschappij, Amsterdam.

A meeting of the council of the German Alcohol Monopoly is to consider price and production policy for the coming "alcohol year" beginning October 1, 1927, says Trade Commissioner Daugherty. Production that has been artificially held down to a 65 per cent quota during the current year will probably be raised to 100 per cent, as the monopoly's turnover during the present fiscal year has been extremely satisfactory.

Sales of potable alcohol in Germany in the fiscal year now ending are estimated at about 675,000 hectoliters, against 562,000 hectoliters in the previous year. Sales of alcohol for production of medicinals and cosmetics will reach 50,000 hectoliters, against 41,000 hectoliters a year ago. The consumption of low-priced alcohol, including that sold as motor spirits, reached 1,250,000 hectoliters, against 1,030,000 hectoliters in 1925-1926.

Solvents

Butanol [Normal butyl alcohol]

Used in all good lacquers.

Excellent solvent for gums, oils and resins.

Basic material for many valuable organic compounds.

Dibutyl Phthalate

The plasticizer for lacquers.

Butalyde

[Normal butyl aldehyde]

Anti-oxidant.

Increases the life of rubber.

Accelerates vulcanization.

Acetone, C. P.

Universal solvent (no residual odor). Base for synthetic resins.

Diacetone-Alcohol

High-boiling solvent in brush lacquers.

Denatured Alcohol

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Terre Haute INDIANA

Plants-Terre Haute, Ind., and Peoria, Ill.









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[Industrial Chemicals]

Another Advance Announced In Mercury Market

Follows One of Last Week Reflecting Sale In Spain—Alcohol Strong— Prime Object Of Interest Is Preparation For Coming Contacts—Business Otherwise Quiet—Textile Chemicals Lively.

Advanced
Barium Chloride imp. 50c ton
Mercury \$4.00 flask
Declined
Acid Tartaric imp. ½c fb
Camphor Jap. 1c fb
Cream of Tartar imp ½c fb
Glycerin C. P. ½c fb

Trend of the Market

Acetic	Acid, Glacial, e-l	D.
Sulphu	rie Acid, Tanks 66 deg.	ton
	Sulfate c-l NY 100	
Bleach	ing Powder, e-l .100	ID s.
Copper	Sulfate e-l NY 100	. lbs.
	Caustie e-l Imp	
Soda /	sh, 58 p.c. e-1100	D s.
Causti	Soda 76 p.c. c-1 100	ID 8.
Potassi	um Bichromate	. D.
Sodium	Prussiate	. ID .

	Two Weeks Ago	Last Month		War Peak	Pre-War
.11%	.11%	.11%	.111/4	.191/2	
15.00	15.00	15.00	15.00	\$5.00	20.00
2.40	2.35	2.30	2.40	7.50	2.65
2.00	2.00	2.00	2.00	9.50	1.50
5.00	5.00	5.00	4.75	20.00	4.60
.0736	0734	.0734	.0716	.87	.08
1.94	1.94	1.94	1.94	3.50	.60
3.66	3.66	3.66	3.66	9.50	1.42
.081/4	.081/4	.0814	.0814	4.65	.06
.12	.12	.12	.10	1.25	.18
3.046	3.041	3.036	3.012	10.79	2.99

Current Quotations and Comments on Specific Items, Pages 514-518

Preparation for the coming contracting period occupies the place of foremost interest among the heavy chemical producers at this time and consequently market conditions are stationary. The outstanding move of the week was featured in the mercury market and another advance followed the one of last week and was in direct reflection of conditions in the primary source. The Spanish production was sold this year at a higher price than had been expected, £ 22 flask, and immediately the market rose and barring a few minor fluctuations as a result of demand or speculation, the prevailing prices will doubtlessly be maintained through the balance of the season. Alcohol is moving freely at full prices and shows no indications of weakening. The raw material market is equally strong, despite recent efforts to break it with low priced offerings and it has been estimated that approximately 75% of the antifreeze trade is covered for their winter requirements.

The movement of heavy acids and alkalies continues with freedom and prices are strong throughout the line. Soda ash, bleach and caustic soda are steady and sal ammoniac is less competitive leaving the makers in control of the market. The present prices seem an indefinite fixture and consumers who prefer foreign material will doubtlessly be forced to pay higher prices as replacement costs are higher than current selling prices. Copper carbon-

ate is lively, potassium chlorate is unchanged although some weakness is reported due to the efforts of another factor to enter the market and barium chloride prices are stronger from foreign sources. Imported tartaric acid again declined due to the diminishing demand and acetone continues firm with a heavy demand from both foreign and domestic consumption points. chemicals are moving rapidly as a result of wider operations in that field and furnished with prominent strength are sodium acetate, which is somewhat scarce, sodium hyposulfite, calcium acetate and acetic acid.

Watt Pottery Co., Crooksville, O. has completed plans for constructing a new two-story addition, to cost about \$40,000. Work will begin at an early date.

LONDON MARKETS FIRM

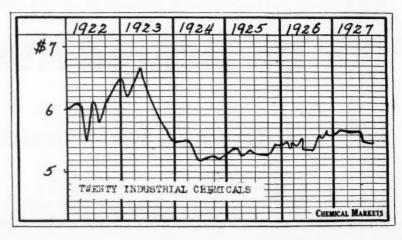
(Special to CHEMICAL MARKETS)

London, Sept. 29 (By Mail)—There is a better feeling in the heavy chemical markets both in London and in the North and a more favorable disposition is shown towards placing contracts over next year. Prices in general are fairly well maintained and few material changes have been recorded.

White powdered arsenic is available in restricted quantities only and a good demand is noted at £17.17s. 6d per ton f. o. b. mines. Acetic acid has been selling in fair quantities at steady prices of £37 per ton of 80 per cent material. Glacial grade acetic acid is offered at £66 in demijohns and £56 ton in barrels ex works. Cream of tartar is easier and more freely offered at 95c per cwt less 21/2 per cent for foreign round lots in bulk. The oxalic acid market is very steady on an increasing demand with prices at £29.15s@£-30 per ton ex wharf. An improvement is looked for in permanganate of potash and commercial grade is offered at 51/8d per lb. in two cwt. drums. Creosote oil is in active demand and quotations have advanced for bulk quantities ex works to 73/4d per gal. Beta naphthol is steady at 1s. 1/2d. lb. Soda acetate has been in good demand and spot stocks are limited. Ouotations are at £18, 5 s ton.

Coal tar products are in better demand and several items show an upward tendency with quotations at 8d for aniline oil.

Lead production of principal countries of the world, which furnished about 90% of the total in 1926, amounted to 135,859 short tons in August, a daily average rate of 4,383 tons, according to American Bureau of Metal Statistics. Estimate for non-reporting countries is 15,100 tons, making world's total 150,959 tons.



Cellosolve price reduced

THE Carbide and Carbon Chemicals Corporation is pleased to announce that increased manufacturing facilities now make it possible to reduce materially the price of Cellosolve and Cellosolve Acetate.

These powerful nitrocellulose solvents are now available at very attractive prices.

Consult current trade journals for new quotations.

CARBIDE AND CARBON CHEMICALS
CORPORATION

30 East Forty-second Street, New York City



Unit of Union Carbide and Carbon Corporation

Crudes & Intermediates

Nitrobenzene and Aniline Oil Schedules Advanced

Continued Strength Results In Price Move—Dimethylaniline Also Higher Spot Naphthalene Raised—Future Prices To Be Announced Next Week—Intimated To Be Of Like Figures—General Market Tighter—Light Oil Derivatives In Unchanged Positions.

De	eclin	ed				
Aniline O	1 1	6c	to	3/4	c	Ib
Dimethyla	nili	1e	1/2	c	ID	
Naphthale	ne 1	14c	Ib			
Nitrobenze	ne	1c	To			
1	Adva	nce	d			
No	de	elin	es			

	Trend (of the Marke	t			
	Today Tw	o Weeks Ago	Last Month	Last Year	War Peak	Pre-War
Benzene, pure tanks wks gal.	.22	.22	.22	.25	1.10	.25
Naphthalene flake 1b.	.05	.04 1/2	.04 1/2	.04 1/2	.16	.03
Phenol Spot lb.	.19	.17	.19	.18	1.50	.08
Toluene tanks wksga	.35	34.5	.*	4.5		
Aniline Oil lc-l	.15%	.15	.15	.16	1.40	.101/2
Alpha capathylamine Ib	.35	.35	.35	.35	1.25	-
Benzaldehyde	.70	.70	.70	.70	-	-
Betanaphthol bbls	.24	.24	.24	.24	1.50	.08
Dimethylaniline c-l	.32	.32	.32	.32	1.30	100
Paranitroaniline bblslb	.52	.52	.52	.45	1.58	.18
		-				
Average	0.3097	0.309	0.309	.305		

Current Quotations and Comments on Specific Items, Pages 514-518

A notable expansion of operations in the intermediate consuming field was of dominant interest this week, The distribution of these products has been of excellent proportions during the past few weeks and with additional interest displayed by the consuming trade, coupled with a general strengthening of prices, active conditions surround the Fall market. It is the belief of some, that prices, particularly those in the intermediates group will be forced lower by the usual selling pressure at this time of the year. While this may be true of "inside deals", surface conditions appear differently this year and as indicated in our last review, that certain intermediate products would advance shortly, the feature development of the week, fulfill this prediction in the form of an advance in aniline products.

For some time the outstanding strength of nitrobenzene has been prominent and its consistency has reflected in an advance in price. The constant influx of the demand has enabled all makers to advance their schedules as well as those of the derivatives, aniline oil and dimethylaniline. Naphthalene, is another product that has been advanced. Present quotations are for immediate shipment only but when the future prices are announced, which will probably be next week, it is understood that they will be of equal value.

The remaining items have not been altered but the major portion of them are moving with freedom and very firmly priced. Paranitraniline and beta-naphthol moving in good sized dimensions at full prices, phenol is firm and the continuity of phthalic anhydride along these lines, does not furnish cause for a price diversion. Cresylic acid is in better supply and a reduction is possible as to-day's prices are the result of a temporary shortage. Low tariff should also be allied in effecting a decline. Para-toluidine is stiffer.

Light oil distillates occupy the same position. Benzene and toluene are in very good demand but the price of the former is still weak and the declining gasoline market, surely does not tend to strengthen it. Xylene and solvent naphtha are in a poor state with the demand dull and prices soft.

SYNTHETIC DYE IMPORTS EXCEED SEPTEMBER 1926

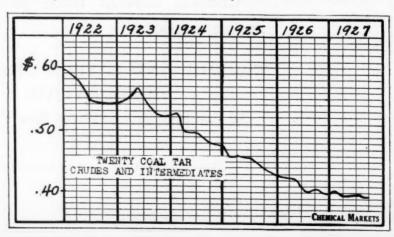
(Special to CHEMICAL MARKETS) Washington, D. C. Oct. 10-Imports of synthetic dyes for the month of September totaled 396,-462 pounds, valued at \$325,338 according to a joint report of the Tariff Commission and the Department of Commerce, showing the imports of dyes, synthetic aromatic chemicals, medicinals, pharmaceuticals, intermediates and other coal tar products in paragraphs 27 and 28. tariff act of 1922. This compares with 387,533 pounds, valued at \$322,446 in Sept. 1926. Receipts of synthetic dyes for the nine months ended Sept. 30, were reported as 3,045,036 pounds, valued at \$2,523,163 as compared with 3,-440,246 pounds, valued at \$3,084,095 in the first nine months of 1926.

Receipts of aromatic chemicals for September totaled 13,525 pounds, valued at \$16,103; color lakes, 950 pounds, valued at \$769; medicinals, intermediates and other coal tar products, 126,820 pounds, valued at \$63,496.

The report showed 887,447 pounds of dyes and colors and 876,786 pounds of intermediates remaining in bonded custom warehouses August 31, as compared with 925,569 and 844,058 pounds on July 31.

An international rayon cartel to consist of the German cartel, the French Bernheim Gillet group, the Union de Producteurs de Soie Artificielle, and E. I. Du Pont de Nemours & Co., is reported to be forming according to "Daily News Record". British Celanese, Ltd., is likely to remain on the outside, it it said.

E. I. Du Pont de Nemours Rayon Co. in commenting on the report, merely points out that it is already linked with the French Comptoir des Textiles Artificiels.



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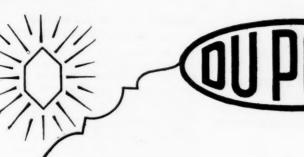
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OUPOND -

ANILINE

and

NITROBENZENE

(Oil of Mirbane)

Skill acquired by the production of many millions of pounds of ANILINE and NITRO-BENZENE in the past decade is responsible for strict product UNIFORMITY

Diligent research by Du Pont Chemical Enginers during that time has yielded such important improvements in quality as to establishing new standards of PURITY.

When you purchase DU PONT ANILINE and NITROBENZENE you obtain chemicals of unsurpassed purity that does not vary from one shipment to the next. You have this assurance whether you buy in drums or in tank cars. May we submit samples for comparison?

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San Francisco, Cal. 569 Mission Street

[Oils and Fats]

English and Blown Rapeseed Advances Feature

Both Grades Show Strong Tendency—Cottonseed Unchanged—Chinawood Sharply Lower—Linseed Quiet—Olive Oil Foots Strong—Animal Oils Up in Sympathy With Western Markets.

Advanced

Coconut oil, Ceylon, bbls. N. Y. 1/8 e Corn oil, crude bbls., N. Y. 1/4 e Oleo oil, No. 1 .03e Oleo oil, No. 2 .031/2 e Oleo oil, No. 3 .01c Rapeseed, English, spot .02c Rapeseed, Blown, spot .02c Tallow, City ½c

Declined
Chinawood Oil, spot bbls. .02 1/4 c
Cottonseed oil, PSY, spot, 1/4 c
Rapeseed, Japanese, spot, .01c

	Trend of the Market					
	Today T	wo Weeks Ago	Last Month	Last Year	War Peak	Pre-War
Lard No. 1gal.	.81%	.871/2	.78%	.85%	2.90	.92
Neatsfoot 20 deg. ct gal.	1 26	1.27%	1.26	1.311/4	8.45	.95
Stearic Acid T. P D.	.13 1/4	.13 1/4	.13 1/4	.151/4	.38	.12
Coconut Ceylon tanks Ib.	.08 %	.08 1/4	.081/8	.091/4	.40	.14
Cottonseed, crude tanks th.	.09 3/4	.09	.09 1/9	.111/2	.25	.08
Linseed crude c-l bblsgal.	.75%	.75%	.78	.881/2	1.85	.57
Olive, denaturedgal.	1.60	1.65	1.63	1.30	4.60	1.05
Peanut refined lb.	.151/2	.15 1/2	.15	.161/2	.30	.08
Soya Beans bbls	.12	.12	.12	.131/2	.191/4	.07

Current Quotations and Comments on Specific Items, Page 520

A general tone of firmness has characterized the local market during the past week despite the quietness which has prevailed. Cottonseed oil, after its advance during the previous week, varied but little, the price on spot and future markets declining somewhat, while crude oil gained an equal amount. Animal oils and fats are gradually rising in price to the level of those set by the Western market. The most rapid advance of the week has been made by the oleo oils, while there has been but a slight rise in the price of tallow over that reached last week.

Japanese rapeseed oil which has been firm for several weeks, receded from the strong position which it had maintained. English and blown rapeseed, however, advanced rapidly and now are quoted several cents higher than the prices which have prevailed for the past month. Consumer demand, in this case is strong and the market correspondingly firm.

Chinawood oil has declined sharply during the past week, but factors look for it to react almost immediately. It is possible that this is the beginning of a movement towards a more normal price level than that which it has been maintaining.

The movement on linseed oil continues quiet with a further slight drop in the five barrel price. Olive oil foots have shown no further advance but continue strong while coconut Ceylon has risen slightly. Menhaden and cod oils are firm and moving in

quite good volume with prices unchanged from previous quoted levels.

Drugs, chemicals, oils, and paints group, with an enrollment of 309 members, ranks fifth in numerical strength according to a survey of membership given in the year book of the Merchants Association of New York, now being distributed.

Wolverine Finishing Materials Co., Grand Rapids, recently organized with a capital of \$50,000, by J. M. Johnson, Grand Rapids, and associates, will operate a local plant for the manufacture of varnishes, paints, and lacquers.

Phosphorous Compounds Co., Niagara Falls, N. Y., is said to be taking steps towards dissolution.

EMERY CO. FELLOWSHIP AT MELLON INSTITUTE

A fellowship for the pupose of conducting research into tallow and greases has been established at Mellon Institute of Industrial Research, University of Pittsburgh, by Emery Candle Co., Cincinnati.

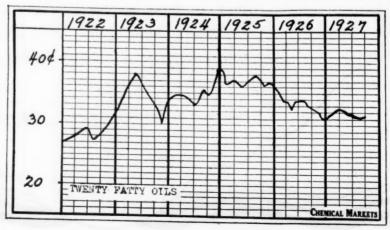
The work will be under the direction of Dr. Robert N. Wenzel, Palo Alto, Cal., and formerly connected with the research divisions of Monsanto Chemical Works and American Smelting and Refining Co. The establishment of the fellowship is for the purpose of bettering distillation and saponification processes of red oil and stearic acid. In addition, the Emery Co. is expanding the work being done at the Twitchell Laboratory of its own plant.

National Paint, Oil & Varnish Assn., Inc., will hold an 18 hole tournament for men at the Seaview Country Club, near Atlantic City, N. J., on Oct. 26 in connection with the fortieth annual convention of the association. A similar contest for ladies will be held on the following day.

Palmolive-Peet Soap Co., 360 Michigan Blvd., Chicago, has plans nearing completion of a new three story addition to its plant at Berkeley, Cal., reported to cost \$75,000, with equipment.

International Paint Corp., East St. Louis, Ill., has plans for a new branch plant and distributing works at Dundalk, Baltimore, Md., where site was recently acquired reported to cost \$25,000.

Kendell larg. Co. will suppyl 250 Jounds soap powden at 3.97c per pound to the Quartermaster at Brooklyn Navy Yard; and 60 packages soap powder at 4.17c.







SERVICE

Carload Shipments of the Company's principal products

SULPHURIC ACID
MURIATIC ACID
ACETIC ACID
SODIUM SILICATE
ALUMINUM SULPHATE
GLAUBERS SALT
and others

flow in a constant stream from the nation-wide chain of works and stations. Vast production facilities, and ample stocks in plant and storage, are of little worth to the customer, if they cannot be made quickly available for his use.

Trains of General Chemical Company's tank cars, and fleets of General Chemical Company's motor trucks, are ever traversing the nation's railways and highways, linking the Company's plants with the users of the products, delivering those products, in any quantity needed, at the customer's specified time.

A highly organized traffic department routes each shipment and follows it to its destination with painstaking care—one part of the organization and system which has made the name General Chemical Company synonymous with "prompt delivery".

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40 RECTOR ST., NEWYORK

Cable Address, Lycurgus, N.Y.

BUFFALO · CHICAGO · CLEVELAND · DENVER LOS ANGELES · PHILADELPHIA · PITTSBURGH PROVIDENCE · SAN FRANCISCO · ST. LOUIS

THE NICHOLS CHEMICAL COMPANY, LIMITED, MONTREAL

[Agricultural Chemicals]

Advance In Chilean Nitrate Market Follows Here

Prices Raised by Virtue of European Demand—Domestic Demand Small—Blood and Tankage Quoted on Higher Range As Scarcity Prevails—Ammonium Sulfate Strong and Potash Salts Normal—Copper Sulfate Held At Unchanged Price.

Advanced
Blood dried S. A. 5c unit
Sodium Nitrate 5c 100 lb s
Tankage S. A. 5c unit
Declined
No declines

Trend of the Market

	Today	Two Weeks Ago	Last Monti	h Last	fear War Peak	Pre-War
Acid Sulfuric 66°ton	\$15.00	\$15.00	\$15.00	\$15.00	\$55.00	\$20.00
Amm. Sulfate100 lbs.	2.35	2.30	2.30	2.40	1.75	2.65
Arsenic100lbs.	4.00	4.00	4.00	3.50	18.00	4.00
Copper Sulfate c-l 100 lbs.	5.00	5.00	5.00	4.75	20.00	4.60
Paris Green	.19	.19	.19	.19	.50	.11
Potash Muriate 80%ton	36.40	36.40	36.40	34.90		
Potash Sulfate 90%ton	47.30	47.30	47.30	45.85	440.00	48.07
Phosphate Acid 16%ton	9.00	9.00	10.00	10.00	11.00	3.00
Phosphate Rock 68%ton	3.00	3.00	3.00	3.00	2.65	3.00
Sodium Nitrate100 lbs.	2.40	2.35	2.30	2.36	5.00	1.90
Average	12.464	12.454	12.515	12.195	10.350	13.84

Current Quotations and Comments on Specific Items, Page 522

Underlying conditions surrounding the fertilizer market are firmer this week and strength is evidenced by advances in foreign blood and tankage and sodium nitrate. With primary suppliers of blood and tankage still disposing of their supplies to the stock feeding interests local sellers meet no difficulty in maintaining high price for their limited stock, in fact, both of these items show a wider price range than last week. South American quotations are also higher and offerings on this market are very small as the greater portion of the production is being consumed at fancy prices in Europe as well as in their own domestic market. Fish scrap is tighter and there is no hope for low prices for the remainder of the season. With the termination of the fishing season approaching, results are still poor and producers are far behind in fulfilling their commitments. Some local sales have been made at a new high level but the general market remains at the same price as last quoted.

The European demand seems to be fixing the market price on sodium nitrate, as Chilean producers, on the strength of the European market, again advanced their prices and local importers did likewise, to meet the increased import cost. The demand has not been of any great dimensions recently and the possibilities of a recession are stronger than those in favor of a further advance. Sulfate of ammonia is similarly strong, with contract consumers withdrawing their regular quotas. The movement of

potash derivatives has lessened somewhat but prices are still firm and the usual change of discount allowed by the importing interests is the only alteration in the market. Orders placed prior to November 1st will be granted a 3% reduction whence a 2% discount will be effective. The copper sulfate market is still firm with the demand continuing heavily for this period of the year and causing manufacturers to refuse any concessions on the established prices. Calcium arsenate has eased off within the past month but no price revision has been announced. Bone meal is strong as is cyanimid and routine sales are made at full prices. Fish acid is nominal and very difficult to obtain, due to the tight conditions in the fish scrap market. Arsenic is moving freely at the quoted levels while paris green and nicotine sulfate continue quietly.

SPAIN SULFATE IMPORTS

Increased importations of ammonium sulfate through Malaga, Spain, for corresponding periods in 1926 and 1927, with countries of origin, are shown by the following statistics from Consul A. C. Brady:

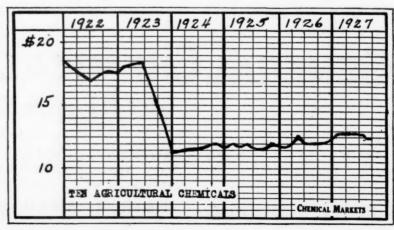
Germany Great Britain Belgium	Quarter Ended June 30, 1927 Jun Kilos 1,288,156 1,235,100	Quarter Ended ne 30, 1927 Kilos 152,784 101,616
Netherlands	2 523 256	413 400

In the quarters ending June 30, and March 31, 1927, synthetic nitrates weer imported amounting to 122,668 and 131,592 kilos respectively, the entire amount originating in Germany. During quarter ended June 30, 1926, however, the imports of this commodity which passed through the Malaga customs district amounted to 600,000 kilos. All this was of Norwegian origin.

About 12,165 tons of commercial fertilizer was consumed in Florida during August, according to a monthly report issued by J. Hinton Pledger, supervising inspector of the State Department of Agriculture. Polk County, with a consumption of 1,548 tons, again led the other counties, and Orange County was second with 1,185 tons.

The Nova Scotia Department of Natural Resources is investigating potash deposits located on the property of the Malagash Salt Products Limited, Malagash, Nova Scotia, where experts hope for valuable finds. The deposit is expected to lie at a depth of between 600 and 900 feet.

Declared exports of guano from Peru to the United States in 1926 amounted to 7,775 tons, valued at \$263,250, reports Consul George A. Makinson, Lima.





Included among the numerous derivatives from

Air-Nitrogen Products

are the following industrial chemicals:

Ammonia, Anhydrous

Ammonia, Aqua

Ammonium Chloride

Case Hardening Compounds

Cyanide, Aero Brand

Cyanide, Copper

Cyanide, Potassium

Cyanide, Silver

Cyanide, Sodium

Cyanide, Zinc

Dicyandiamid

Diortho-Tolylguanidine

Diphenylguanidine

Formic Acid

Hydrocyanic Acid, Liquid

Potassium Prussiate, Red

Potassium Prussiate, Yellow

Sodium Prussiate, Yellow

Sulphocyanides

Thiourea

Urea

Sold by

American Cyanamid Co.

535 Fifth Avenue

New York, N.Y.

[Industrial Raw Materials]

Rosin Market Again Reduced; Shellac Quiet

Sharp Declines Feature Rosin Market—Turpentine Also Lower In Savannah—Shading Heard On Shellac—Tanwoods Quiet—Egg Albumen and Egg Yolk Lower—Japan Wax Abundant.

Advanced

Carnauba Wax No. 1 yellow 3e Ib Carnauba Wax No. 2 regular 1c Ib

Destine

Albumen, egg 2c fb Candelilla Wax 1c fb Egg yolk 1c fb Gum Batavia E Seed ½c fb Gum Damar Batavia Stan. ½c fb Japan Wax ¼c fb Rosin N 40c 280 lbs Rosin WW 50c 280 lbs Rosin B.D.E.F.G.H.M., 60c 280 lbs Rosin I.K., 65c 280 lbs

Current Quotations and Comments on Specific Items, Page 522

Business in the industrial raw material field is quiet at this time and the outstanding result of this condition is another substantial decline in rosin values. For the second successive week, rosin has been reduced, caused by a poor demand coupled with a heavier flow of receipts. The latter reason is due to the action of many of the producers who had been holding supplies for higher prices and are now releasing them gradually. This is particularly true of the top grades and further reductions will probably be seen next week. Turpentine was also lower for the week but is expected to return to its former position on a sizable demand.

Little activity has been seen in the market for tanning materials. Myrobalans are in good supply, but the prices for the remaining tanwoods are unsteady. There are no offerings from abroad, awaiting the arrival of more supplies for the interior. Waxes are somewhat weaker. The local market is well stocked with Japan wax and is consequently lower with possibilities of further reductions for the immediate future. Candelilla is correspondingly lower. Varnish gums fail to show any signs of rising from their long state of dormancy and while low quotations have been heard, generally, the importers are maintaining quoted prices. The shellac market is quiet and unchanged, with foreign suppliers adhering to their established position and importers quoting unchanged official prices but inclined to shading in effort to create a demand. Egg Albumen and egg yolk are lower with increasing supplies being entered from China.

(Special to CHEMICAL MARKETS)

Savannah, Ga., October 10, 1927— The week's turpentine market closed at 61/2c gal., representing 13/4c gal. reduction from last week's prices. The demand was poor through the week and responsible for the decline but an improvement was seen this morning when several bids were entered, with a bid on Tuesday's offerings at 463/4c lb. This would indicate a rise but it is thought that any advance will end when last week's losses have been recovered. Concerning the future, it is believed that the season's increased production will tend to lessen any attempt to radically advance the market. Receipts of turpentine this week were 5,243 barrels, sales reported of 3,-320 barrels, (additional sales of possibly 1,500 barrels on private terms). Shipments were only 887 barrels, however the coming week will show clearance of several thousand barrels. Present Savannah stock 32,534

A decline in the rosin market was again registered this week as commons sold 15c lower than sales made at the close of last week. High grades dropped off considerably upon the release of further supplies from the interior. The demand which was also allied in effecting the reductions, was much inferior to that witnessed for some time and with a normal demand this week. prices will probably recover. Receipts of rosin this week 17,059 barrels, sales reported of 7,452 barrels and possibly 7,500 barrels additional privately sold. Shipments were small at 5,580 barrels but there are some shipments that have not yet been deducted from the stocks at Savannah which are 129,453 barrels. Current prices are: X,WW \$10.00@\$10.50; WG, \$8.90@\$9.30; N, \$7.75@\$8.00; M,K,I,H,G,F,E,D,

Jacksonville Fla.—Turpentine is weaker at 46½ gal. with 55 barrels

held over this morning refusing lower bids. Rosin also lower at the following prices: X, WW, \$10.30, WG \$9.15; N, \$7.85; M,K, \$7.65; I, \$7.60; H,G, \$7.55; F,E,D,B, \$7.45. Present Jacksonville stocks, turpentine 32,986 barrels and rosin 81,240 barrels.

FRENCH TURPENTINE WEAK

Washington, D. C., Oct. 12—Export price for spot turpentine in the Landes district on Oct. 1, was 392 francs per 100 kilos, equivalent to \$.487 per gallon, with the market weak, according to a cable to the Department of Commerce from Consul Lucien Memminger. Bordeaux.

Lucien Memminger, Bordeaux.

The price of WW rosin was 250 francs per 100 kilos, equivalent to \$10.33 per 280 pounds. The market was firm and lower grades or rosin were dull. Final dip has been curtailed in some districts due to weather conditions and it is estimated that total virgin dip production this year will amount to 15 per cent less than last year.

The hard gum scrape which has just begun is considered of poor quality in France. The total exports in August amounted to 264 metric tons for turpentine and 5,-224 metric tons of rosin.

CANADA ANTIMONY MINE HAS RESUMED OPERATION

Operations of the antimony mines at Lake George, Canada, twenty miles from Fredericton, New Brunswick, by a syndicate composed of Brig. Gen. Charles A. Smart, C. M. G., Westmount, Quebec, and associates, were resumed on Sept. 1, according to Consul Erick W. Magnuson, Halifax. An agreement was completed late in August transferring the leases on the property to these new interests by the North American Antimony Smelting Company.

The main corporation, of which the company operating the antimony mines at Lake George will be a subsidiary is reported to be capitalized at \$10,000,000 and will soon erect an extensive chemical manufacturing plant near the site of one of the large salt deposits existing in New Brunswick, near Hillsboro, and in Nova Scotia, near Malagash.

Russia is putting into operation its new naval stores plant, estimated to be capable of supplying one-sixth of the total domestic demand for rosin, according to information received by U. S. Department of Commerce.

Los Angeles Whaling Co. has been organized at Los Angeles, Cal., \$300,-000 to engage in whaling in southern California waters.



Industrial Alcohols and Alcohol Chemicals

U. S. INDUSTRIAL ALCOHOL CO.
U. S. INDUSTRIAL CHEMICAL CO., Inc.

Executive Offices: 110 East 42nd Street, New York, N. Y.—Branches in all principal cities

Sole Manufacturers of PYRO-THE STANDARD ANTI-FREEZE

Prices Current

Heavy Chemicals, Coal-tar Products, Dyeand-tanstuffs, Colors and Pigments, Fillers and Sizes, Fertilizer and Insecticide Materials, Naval Stores, Fatty Oils, etc.

Chemical prices quoted herein are those of American manufacturers for goods, spot New York, f. o. b., or exstore, for immediate shipment, unless otherwise specified. Industrial chemical products sold principally on a basis of f. o. b. works are specified as such. Quotations on imported chemicals are so designated. Resale stocks sufficient to be a factor in the market, are quoted in addition to makers' prices and are indicated as "second hands."

Oils and fats are quoted spot New York, or ex-dock.

Quotations on products sold f. o. b. mills, or spot Pacific Coast are so designated.

Industrial raw materials are quoted spot New York, f. o. b., or ex-dock. Materials sold f. o. b. works or delivered at various sections of the country are so de-

The range of prices given is not "bid and asked," but indicates quotations from different sellers, based on varying grades or quantities or both. Containers named are the original packages most commonly used in the New York market.

Chemicals

Alcohol Isopropyl Butyl Tartrate

		_	
A - 4-11 1 1 1.			
Acetaldehyde			
Alcohol Ethyl			
Alcohol Ediyi			
Acetaldehyde drs. le-l wiss D. ACETANILID, tech 150 D bbls D.	.24	:	.26
ACETANILID, tech 150 D bbls D.	.20	:	.31
		•	
92-95% 100 Pb ebvs Pb.	.29	:	.35
Acetone CP 700 m dm al who m	1.65		19
Acetone, Cit, 100 ib die e-1 was ib	1 48	*	
Acetone on dis N. 1gal.	1.00		1.70
Acstyl Chloride, 100 m cbys . b. AGID. Acette, 28% 400 m bbls e-1 wks . 100 m. Benxole, tech., 100 m bbls . ch. Benxole, tech., 100 m bbls . b. Boric crys., powd., 250 m bbls m Carbolle 10% 50gal bbls	.42		.40
AGID, Acetic, 28% 400 lb bbls e-1			
wks100 lb.		:	3.38
Glacial bbls e-l wks 100 lb.		: 1	1.92
Benzoic, tech., 100 h bbla., h.	.57		.60
Rorie ervs nowd 250 h bble h	ORI	1.	11
Casholia 1007 Komi bhia	0.5	3.	90
Chlored 1500 b de ch	.20		.20
Chiorogaironie 1500 ib dri was ib.	.10		.10
Chromotropic, 300 m bbls m.	1.00	:	1.06
Citric, USP, cryst 230 lb bbls lb.	.44	:	.55
Cleve's' 250 m bbls m.	.95	:	.97
Cresylic, 95% dark drs NY gal.	.65	:	.67
97-99% pale NY gal.	.70		.72
Formic 85% tech 140 chys Th	11		19
Comme 225 % bble whe %	1 00		1.00
If oos in the electric trans.	1.00		1.00
H 225 10 DOIS WES	.07		.03
Hydrobromic, 48% com'l 155 lb			
cbys wks	.45	:	.48
ebys wks	.80	:	.00
WYDROFLUORIC, S0% 400 D bbls wks D. Hydrofluoritide, 35% 450 D bbls wks D. LACTIC, 22% dark 500 B bbls D. Laurent's 250 b bbls D. Metanilic 250 lb bbls lb. Mixed, Sulfuric-nitrie			
HIDROFLOUNIC, 3076 400 E			
DOIS WAS			.00
Hydrofluouillele, 35% 450 m bbls			
wks		:	.11
LACTIC 99% dark 500 th bble th	051/	4 .	06
AAOL Habt bble Th	19	2 .	191/
Tournet's OFOTh blie	.10		.1073
Laurence 250 m Dom	.02		.04
Metanific 250 in obisib.	.60		.65
Mixed, Sulfuric-nitrie			
Drums, wis	.075	6:	.08
Drums, wks S Unit	.01	:	.0136
Monosulfuric FDelta 50 lb tins lb.			-65
MIIDIATIC GOO show the 100 P		-	
muniante, 20° coys was 100 to.	1.70		1.80
18° 120 m ebys e-1 wks100 m.			1.35
Naphthionic tech, 250 b bbls b.	.55	:	.59
N & W 250 m bbls m.	.95	:	.99
NITRIC 36° 135 D			
Chys e-1 wks 100 fb			5.00
400 elves e l wks 100 %			6.00
Owalie 200 h bble who N V h		:	333/
When the second	.11		.1179
rhosphorie, 50% 150 ib edys ib.	.08		.08 1/9
Syrupy USP, 70 lb drums lb.	0 0 0	:	.16
Pleramie, 300 lb bbls lb.			.50
Pyrogallic tech 200 m bbls m.		:	.86
Salicylie tech., 125 m bbls m.	.27	:	.32
Sulfanilie, 250 m bbls m.	.15		.16
NITRIC 36° 135 D Chys e-1 wks100 D. 40° chys a 1 wks100 D. Oxalic, 300 D bbls wks N Y D. Phosphoric, 50% 150 D chys D. Syrupy USP, 70 lb drums D. Fleramic, 300 D bbls D. Fleramic, 300 D bbls D. Salicylie tech 200 D bbls D. Salicylie tech 200 D bbls D. Sulfanlie, 250 D bbls D. Sulfanlie, 250 D bbls D. Sulfanlie, 300 D bbls D. Oxalicylie tech 125 D bbls D. Sulfanlie, 250 D bbls D. Oxalicylie tech 100 D bbls D.			
le-1 when 100 m	1 40		1 05
1 500 % deserte when 100 %	1.00		1.00
1,500 m drums was 100 m.		-	1.20
60° 1,500 m drums wks100 m.			1.10
Oleum 20 pc 1500 lb drums			
le-l wks100 D.		:	1.50
Oleum 40%drs le-l wksnet ton.			42.00
Tannic, tech., 300 lb bhla., lb.	.30		.40
Tartaric, USP, ervet need 200 h			
hale	20	1/	27
Bolder OFO The halo	.36	74 .	.37
oleum 20 pe 1000 in drums le-1 wks			.50
wks c-l th	.20		.21
Drums le-l wks Th	20	16:	2114
Tank cars who	10	1/4	201/
Disectors Komi de del	1 70	74 .	1.00%
wks c-1 b. Drums lc-1 wks b. Tank cars wks b. Diacetone, 50gai drs del. gal. Phys. USP19005 50 galbble gal.	1.10		1.90

Ethyl USP190pf 50 galbbls gal.

Anhydrous, drumsgal
thyl, Denatured

1 Complete des

50

0 gal drums extra gal. 5 Complete denat 188pf

gal drums extra gal.

nat 190pf

.52

Acetone-A very heavy demand both for export and domestic con sumption continues to feature the market. The price is very firm a 12c 1b.

Acid Acetic - Activity in th textile industry continues to provid this market with a strong demand Soundness in price prevails at the current levels of \$3.38 100 lbs. fo 28° material. Glacial acid is als strong at \$11.92 100 lbs. in carload but the demand, while good, does not compare with the call for th liquid acid.

Acid Citric - The market bright ened somewhat last week, but it i still dull and although prices ar held at 44c@45c lb., it is believe that lower prices may be done,

Acid Cresylic - This market still strong and prices are unchang ed The dark material remains a 65c@67c lb. and pale is offered a 70c@72c lb. Imports are of large quantity now and a revision in pric might result. The present high figures were caused by further con suming operations abroad.

Acid H - This market continue quiet with contract deliveries of regular size and price in a firm pos tion at 57c@63c lb. Current spo business is of negligible amounts.

Acid Muriatic - Activity in th market is confined to regular rot tine business of average amount The prevailing prices are held all directions at \$1.70@\$.180 100 lb for 100° acid in carboys and \$1.3 for 18° material in carload qua tities for carboys.

Acid Oxalic - The demand con tinues brisk and producers are of erating on a capacity basis. Materi is none too plentiful and prices as outstanding with firmness at 11c 111/2c lb.

Acid Tartaric - The market r mains quiet and a minimum amou of trading has been seen. Impor

	Butyl	Larti	at	е
-	ALCOHOL			
	Isopropyl, refined gal drsgal. Propyl nml., 50gal drs b. Aldehyde ammonis, 100gal drume b. Aldehyde Ammonis, 100gal drume b. Alpha-Naphthol crude 300 b bbls b. Alpha-Naphthol crude 300 b bbls b. Alum, Ammonia, lump, 400 b bbls b. Alum, Ammonia, lump, 400 b bbls wiss le-1100 b. Chrome, 500 b cks. wks b. Potash, lump, 400 b wks 100 b. Potash, lump, 400 b bks wis 100 b. Soda Grd., 400 b bblswis 100 b. Aluminum metal, e-1 NY100 b. Chloride, anhyd 275 b drs. b. Hydrate 96% light 90 b bbls b. Stearate, 100 b bbls b. SULFATE, Iron-free bags e-1	1.00		1.25
	Propyl nml., 50gal drs lb.		:	1.00
	Alpha Naphthal anda 200 h bhia	.80	:	.82
	Alpha-Naphthylamine. 350 lb bbls lb.	.35		.37
d	ALUM, Ammonia, lump, 400 m bbls		•	
	wks le-l100 fb.	3.15	:	3.50
	Chrome, 500 lb cks. wks lb.	5.25	:	5.50
	Cheema 500 h cockers 100 h	8.00		3.75 5.50
	Soda Grd., 400 m bblswks100 m.	0.20	:	3.75
į	Aluminum metal, e-l NY100 D.		: 1	26.00
	Chloride, anhyd 275 lb drs. lb.	.35	:	.40
	Hydrate 96% light 90 lb bbls lb.	.17	:	.18
	.SULFATE. Iron-free bass e-1	.40	•	
۰	wks100 m.		:	1.75
	Com'l bags c-l wks 100 lb.	1.35	:	1.40
A	minoazobenzene, 110 fb kegs fb.	* * * *	:	1.15
	Water 260 800 h dra del h	.11	:	03
	Bifluoride, 300 b bbls b.	.21		.22
	Carb. tech., 500 m cases m .	.08%		.09
1	Chloride White bbls wks 100 lb lb.	5.05	:	5.25
	Gray, 250 bbls wks b.	051/4	:	.05%
	Lactate, 500 b bbls	.15		.16
	Persulfate, 112 kegs	.274	:	.30
	SULFATE, Iron-free bags e-1 wks			
	bols	0.05	:	.18 2.40
	Southern points 100 fb	2.35		
	Amyl-Acetate, tech., 50 gal drs gal.	1.90	:	2.00
	Alcohol, see Fusel Oil			
	ANILINE OIL, 960 lb drumslb.	.15%	:	.16
	Antimony metal slake tone lote To	.90	:	111/
	Needle powd 100 lb ca lb.	.1534		.16
	Oxide, 500 bbls	.16%	:	.17
	Arsenic Red, 224 kegs cases Ib.	.105		.11
	white 112 ib kegs ib.	42.50		.04
	Chlorate 1127 kem NV 7	17.50		1914
	Chloride, 800 lb bbl wkston	59.50	:	63.00
	Dioxide, 88% 690 m drs m.	.13	:	.131/
	Hydrate, 500 m bbls m.	.045		.04%
	Nitrate, 700 lb csks lb.	.073	9:	.08
	Southern points . 100 fb. Amyl-Acetate, tech., 50 gal drs gal. Alcohol, see Fusel Oil Antilne Oil, 960 fb drums fb. Antilne Oil, 960 fb drums fb. Antimony metal slabs tons lots fb. Needle powd 100 fb ca fb. Oxide, 500 bbls fb. Arsenic Red, 224 kegs cases fb. BARIUM Carbonate 200 fb bgswiston Chlorate, 112 fb kegs fb. BARIUM Carbonate 200 fb bgswiston Dioxide, 880 fb bbl wks ton Dioxide, 880 fb bbl wks ton Dioxide, 886 fb fb drs fb. Barytes, floated 350 bbls fb.	23.00		24.00
	wks ton. Benzaldehyde tech. 945 lb drs wks lb.	.65	:	.70
	BENZENE			
	Benzantenyue eee. 845 m tus was b. Benzene Comm. 90% 8,000gal tks wksgal. Commercially pure tks wks gal. Benzidine Base, dry 250 m bbls m. Benzoyl Chloride 500 drs D. BETA-MAPHTHOL 250 m bblswks m. Peta-Naphtholawina cheb. 200 m	.22	:	.23
	Renzidine Rase dry 250 h bble h	.22		.24
	Benzoyl Chloride 500 drs D.		:	1.00
	BETA-NAPHTHOL 250 m bblswks m.		:	.24
	Beta-Naphthylamine tech 200 b	**		
	bbls	.63	:	.65
	BETA-MAPHYHOL 250 m bbls wis in . Beta-Naphtylamine tech 200 m bbls	80.00		90.00
	BLEACHING POWDER, 700 To dra	00.00		30.00
	e-l wim contract100 D.		:	2.00
	300 lb drs e-1 wks contract100 lb.			3.25
	Blues, bronze Chinese, Milori	0.0		20
	Property Ash 1007 keeps D.	.28		.30
Į	Black, 200 lb bhis	.00		.031
	Borax, crys., 500 lb bbls lb.	.04	14:	.05
	Bordeaux Mixture, 16% pd Ib.	.11	0	.12
	Paste, bbls	.08		.10
	Butyl Acetate normal tk drs wksgal.	***	:	1.55
	Blues, bronze Chinese, Milori Prussian Soluble 10. Bone Ash, 100 lb kegs. lb. Black, 200 lb bbls lb. Borax, crys. 500 lb bbls lb. Boraxe Mixture, 16% pd. lb. Paste, bbls lb. Buttyl Acetate normal tk drs wksgal. Drums lc-l wks gal. Secondary 50gal drums gal. Aldebyde 50gal drs wks. lb. Propionate, drs. lb.	1.00		1.05
	Doctorium, Dogue di dinieri i Bati	70		
	Aldehyde 50gal drs wks D. Propionate, drs	. 10		

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Copper Carbonate

Pure Precipitated in 400 lb. barrels

Makes an excellent light green paint, with good body and covering power. For Platers, yields the maximum plate per pound and *more* plate per hour. In Flag Smut of Wheat and Loose Smut of Oats increases stand and saves losses.

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Calcium Acetate

Ferrous Chloride		
Steamte Ford dw B		.60
Stearate 50gal drs ID. Tartrate drs ID. CALCIUM Acetate 150 ID bgs c-1	.57	40
CALCIUM Acetate 150 m bgs c-1	:	8.50
CAICIUM Acetate 150 m bgs c-1 100 m. Arsenate, 100 m bbls c-1 wks m. Carbonate, tech 100 m bags c-1	.071/	.08
100 ID.	1.00	1.10
CALCIUM Chloride solid 650 m drs	11 00	23.00
Flake, 375 lb drs e-1 wks.ton.		27.00
Nitrate, 220 lb bbls e-l NY ton.	09	52.00
CAMPHOR, Amer ref. 250 lb bbls lb.		.62
CALCIUM Chloride solid 650 m drs. e-l f.o.b. wkston. 5 Flake, 375 m drs e-l wks.ton. Nitrate, 220 m bbls e-l NY ton. CALCIUM, Phos., tech450 m bbls m. CAMPHOR, Amer ref. 250 m bbls m. Jap., ref slabs 100 m esm. Carbon Bisulfide 500 m dr le 1 NY	.60	.03
lc-lNY D.	• • • •	.12
Carbon Dioxide, Liquid 20-25cy ID.	.08	.06
Tetrachloride, 14000 B drs del B.	.07	: .071/4
Cellulose Acetate, 50 lb kegs lb.		1.40
Chalk, drop 175 m bbls m.	.03	.03%
Precip., heavy 560 m csksm.	.0214	.03 1/4
CHLORINE, Liquid tank or multi-		0514
le-1 cyl was contract. D.	.08	.09
Chlorobenzene, mono, 100 lb drs.		.07
Carbon Black 100-300 b cs lc-1		
drums D. Chromium Acetate 20° sol'n400lb	.20	22
bbls		: .051/6
Fluoride, Powd., 400 lb bbls lb.	.27	.3514
Chrome Green, CP D.	.26	.29
Chrome Vellow	.16%	: .17
Clay c-1 Bulk, Del.,ton.	16.00	: 18.00
Carbonate 400 lb bbls lb.	.16 1/4	: .171/4
Chloride 250 m bbls m.	40	: .28
Oxide. red 100 m bbls tons. m.	.16%	: .17
Sub-acetate verd 440 m bbls m.	.18	: .19
Copperas bulk, crystal and sugar		. 5.00
drums	1.95	: 13.00
Cotton Soluble 100 b wet b.	.40	: .42
CREAM TARTAR, USP, 300 B bbls	2614	28
Creceote USP 42 D chys D.	.40	: .42
Creesote Oil Natural 50gal drs. gal.	.25	.21
25-30% Tar Acidgal.	.28	29
Diamyl Phthalate drums, wksgal.	2.95	2.97
Dianisdine, 100 b kegs b.	3.25	3.35
Dibutyl Tartrate, 50gal drums D.	.55	65
Dichloromethane drums, wks D.	.28	2.15
Diethylaniline, 850 m drs m.	.55	: .60
Diethyl Carbonate, drumsgal.	1,85	2.00
Deithyl Sulfate tech., 50 gal drs lb.	.30	.35
Dimethylamine, 400 lb drs lb. Dimethylaniline 340 lb drs. wks lb.	.30	: 34
Dimethysulfate, 100 lb drs lb. Dinitrobensene, 400 lb bbls lb.	.45	: .50
Dinitrobensene, 400 m bols m. Dinitrochlorobensene, 400 m bbls m.	.10	: .16
Dinitrochlorine 300 m bbls m.	.18	: .19
Dinitronaphthalene, 350 m bbls D. Dinitrophenol, 350 m bbls	.31	34
Dinitrophenol, 350 fb bblsfb. Dinitrotoluene, 300 fb bblsfb.	.18	: .19
Dierthotolyguanidine, 275 m bbls wks m.	.85	: .90
Diphenylamine		: .47
EPSOM SALT, tech., 300 ID DDIR		
e l NY100 ib. Ethyl Acetate, 99% 50gal drs gal. 85% Ester 110 gal drs	***	: 1.75
85% Ester 110 gal drs		
Benzyl Aniline, 300 D drs D.	1.05	: .90 : 1.11
Chloride, 200 m drs m.		: .22
Lactate drums wksgal. Methyl Ketone, 50gal drs D.		
Oxalate drums wks	.45	: .55
Ethylene-Bromide 600 D drsD. Chlorhydrin, anhyd., 50gal drs D.	.75	: .85
Dichloride, 50gal drs ID .	***	: .11
Glycol 50gal drums wis B. Ethylidenaniline B.	.80	: .40
Feldspar bulkton.		
FERRIC CHLORIDE tech., crys. 475 m bbls m.	.074	: .09
Ferrous Chloride cryst tech 475 lb		
bbls	.05	: .06

Chemicals

Fluorspar Para-Aminophenol

ed material is now available at 361/4c @37c lb, and a fair sized order will probably produce even lower quotations. Meanwhile domestic goods have been offered at unchanged prices of 37c@38c lb, and may be reduced shortly.

Alcohol Butyl — Has been favored with a steady demand at full prices and its maker is again repeating prices for this month. The schedule follows:—Tankcars 23½c @24½c lb. drum cars 24c@25c lb. and l. c. l. drums 24½c@25½c lb. A discount of 4½c lb. is granted from these prices making the basic price 19¼c lb.

Alcohol Denatured — The fact that C. D. alcohol will not decline during the winter, is now unquestioned. The distillers claim to have approximately 75% of the consuming field sold and anticipate booking the remainder when the cold weather appears. Basic prices for No. 1 and No. 5 are 48c and 46c gallon respectively.

Ammonia — Sales for both anhydrous and aqua have dwindled to conservative amounts but no signs of price weakness have been seen. The former is quoted at 11c@12½c lb. and the latter remains well held at 3c lb.

Ammonium Chloride — The competitive atmosphere has subsided somewhat recently, leaving the domestic factors in control of the market. Producers are working on a narrow margin of profit and will not be inclined to again reduce prices so the market remains at \$5.05 100 lbs.

Aniline Oil — The continued strength of this market together with the high cost of production has prompted the producers of this material to advance their schedules. Aniline oil in tank cars is now priced at 15c lb. and drums range 1534c@16c lb. representing an advance of 1c lb.

Barium Chloride — The market for imported has tightened somewhat and \$59.50 ton seem to be the best price. Domestic ranges \$60.00@\$63.00 ton and the demand for both is steady.

Benzene — Conditions surrounding the market improved somewhat during the week, an added demand was witnessed, but prices are unchanged. The market is placed at 22c gal. in tank cars and is held rather unsteadily.

Copper Sulfate — Market continues strong at \$5.00 100 lbs. in carlots and is not liable to change in the immediate future.

Fluorspar, 95% 220 lb bags ex- dockton. FORMALDEHYDE USP, bbls 400 lb		
dockton.	:	25.00
FORMALDEHYDE USP. bbls 400 lb		
Formaldehyde Amline 100 m drs b. Furfural 500 m drums b. Fusel 011 10% Impurities drsgal. G SALT paste 360 m bbls b.	.08%:	.09
Formaldehyde Anfline 100 b draft.	.39	.42
Furfural 500 lb drums lb.		.171/2
Fusel Oil 10% Impurities dragal		1.69
G SALT paste 360 m bbls m.	.50	.52
GLAUBER'S SALT, tech., 2000 bgs. clauber'S SALT, tech., 2000 bgs. clauber'S SALT, tech., 2000 bgs. GLYCERIN, CP, 550 lb drums lb. Dynamite, 100 dr		
al who 100 h	1 05	. 1.10
CIVIEDIN CD 550 Ib deime D	99	9314
Deposite 100 de	10	20 72
Capanification tanks	14	1.5
Saponification talias	191/	14
Howelene Forel des	.10 %	.12
Hexagene, Sugar drs., was ID.	000	.00
nexamethylenetetramine drs ib.	.02	00
HYDROGEN PEROXIDE,		
100vol 140 b cbys . b. 1RON Chlorido see Ferric or Ferrous Nitrate, kegs . b. Com'l bbls . 100 b. 0xide, red Spanish . b. English . b.	.24	.20
INUN Chloride see Ferric or Ferrous		
Nitrate, keep	.09	: .10
Com'l bbls100 b.	2.50	3.25
Oxide, red Spanish D.	.02 1/2	: .03 1/4
English	.10	: .12
LEAD, Metal c-1 NY100 lb.		6 25
Acetata white accetals 500 m		. 0.20
Acetate, winte crystais 500 m	9.00	. 19 50
Amenata bhla lal aba B	1914	. 10.00
Arsenate, Dois., IC-1 was ID.	.10 73	14
Autrate, 500 in 5015 wis in.	***	0000
LEAD, Metal c-1 NY 100 lb. Acetate, white crystals 500 lb bbls wks 100 lb. Arsenate, bbls, le-1 wks lb. Nitrate, 500 lb bbls wks lb. Oxide, Litharge 500 lb bbls lb. Oxide, red 500 lb wks lb. Oleate, bbls lb.		08%
Oxide, red 500 lb wkslb.	* : :	09%
Oleate, bbls	.171/2	: .18
White, 500 lb bbls wks lb.		: .09
White sulfate 500 lb bbls wks lb.		: .081/4
LIME, (Salts, see Calcium Salts)		
Ground Stone, hagston.		: 4.50
Live. 325 m bbls tons wks100 m.		: 1.05
Ground Stone, bagston. Live, 325 b bbls tons wiss100 b. Lithopone, 400 b bbls le-1 wissb. MAGNESITE, calcined, 500 bbls ton.		: .06%
MACNESITE calcined 500bble ton	18 00	. 80.00
Magnedum Carb tech 70% home	10.00	. 50.00
Magnesium Carb., tech., 70 b bags NY b. MAGNESIUM, Chloride, flake 575 b	.06	. 0814
MACHECINA Chicalde Clabs FORM	.00	: .06%
MAGNESIUM, Chioride, Ilake 5/5 ib		
drs e-1 wks		: 87.00
Imp., Flake Shiptton.		: 83.00
Imp., fused 900 lb bbls NYton.		: 31.00
Fluosilicate cryst400 lb bblswks lb.	.10	: .101/2
Oxide, USP, light 100 lb bbls lb.		: .42
MAGNESIUM, Chloride, flake 575 m are el was		: .50
Stearate bbls	.23	: .25
Manganese Borate, 30% 2001b		
hbls D.		
Chlorida 600 th cake th	0.8	: .24
Chlorida 600 th cake th	.08	: .081/2
Chloride, 600 lb csks lb. Sulfate, 550 lb drums NY lb.	.08	081/2
Chloride, 600 lb csks lb. Sulfate, 550 lb drums NY lb.	.08	081/2
Chloride, 600 lb csks lb. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-ardline lb.	.08	081/2
Chloride, 600 lb csks b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-aniline b. Meta-Nitro-para Toluidine. 200 lb	.08	
Chloride, 600 lb csks b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-aniline b. Meta-Nitro-para Toluidine. 200 lb	.08	081/2
Chloride, 600 lb caksb., Sulfate, 550 lb drums NYlb. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bllalb. Meta-Phenylenediamine, 300 lb	.08	: .08½ : .07¼ :126.00 : ,74 : 1.70
Chloride, 600 lb caks	.08	
Chloride, 600 lb caks b. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-miline lb. Meta-Nitro-para Toluidine, 200 lb bols lb. Meta-Phenylenediamine, 300 lb Meta-Toluylenediamine, 300 lb	.08	: .08½ : .07¼ :126.00 : .74 : 1.70 : .94
Chloride, 600 lb caks b. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-aniline lb. Meta-Nitro-para Toluidine, 200 lb bbla lb. Meta-Phenylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb	.08	: .08½ : .07¼ :126.00 : .74 : 1.70 : .94
Chloride, 600 lb cals lb. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-antiline lb. Meta-Nitro-para Toluidine, 200 lb bolia lb. Meta-Phenylenediamine, 300 lb bolis lb. Meta-Toluylenediamine, 300 lb bolis lb.	.08	: .08½ : .07¼ :126.00 : .74 : 1.70 : .94
Chloride, 600 lb cals	.08	: .08½ : .07½ :126.00 : ,74 : 1.70 : .94 : .74
Chloride, 600 lb caks b. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-amiline lb. Meta-Nitro-para Toluidine, 200 lb bbla lb. Meta-Phenylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. METHANOL (Wood Alcohol) drms 95% gal.	.08	: .08½ : .07½ :126.00 : ,74 : 1.70 : .94 : .74
Chloride, 600 lb cals	.08	: .08½ : 1.26.00 : ,74 : 1.70 : .94 : .74 : .55 : .57
Chloride, 600 lb cals	.08	: .08½ : 1.26.00 : ,74 : 1.70 : .94 : .74 : .55 : .57
Chloride, 600 lb cals	.08	: .08½ : 1.26.00 : ,74 : 1.70 : .94 : .74 : .55 : .57
Chloride, 600 lb cals	.08	: .08½ : 1.26.00 : ,74 : 1.70 : .94 : .74 : .55 : .57
Chloride, 600 lb cals	.08	: .08½ : 1.26.00 : ,74 : 1.70 : .94 : .74 : .55 : .57
Chloride, 600 lb cals	.90	: .08½ : .07¼ :126.00 : .74 : 1.70 : .94 : .75 : .55 : .57 : .58 : .75 : .98 : .75
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY lb. MERCURY, metal 75 lb flask, flask Meta-Nitro-nufline lb. Meta-Nitro-para Toluidine, 200 lb bbla lb. Meta-Phenylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. METHANOL (Wood Alcohol) drums 95% gal. 97% drums, lc-1 gal. 97% drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acetate drums gal. Methyl Acetate drums gal. Methyl Acetone, 100 gal drums gal. Chloride, 900 gcf gal.	.08	: .08% : .07% : :126.00 : .74 : .170 : .94 : .74 : .55 : .57 : .58 : .58 : .58 : .58 : .95 : .95 : .95 : .95 : .95
Chloride, 600 lb caks b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-antiline b. Meta-Nitro-para Toluidine, 200 lb bibls lb. Meta-Phenylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. METHANOL (Wood Alcohol) drms 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Pure drums, lc-1 gal. U. S. denat. grd., tanks. gal. Methyl Acetate drums gal. Methyl Acetate drums gal. Chloride, 90 lb cgl drums gal. Chloride, 90 lb cgl drums gal. Monethylaniline, 900 lb dr pb.	.08	: .08% : .07% : :126.00 : .74 : .170 : .94 : .74 : .55 : .57 : .58 : .58 : .58 : .58 : .95 : .95 : .95 : .95 : .95
Chloride, 600 lb cals	.08	: .087% : .077% :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .75 : .58 : .58 : .75 : .58 : .58
Chloride, 600 lb cals	.08	: .087% : .077% :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .75 : .58 : .58 : .75 : .58 : .58
Chloride, 600 lb cals	.08	: .087% : .077% :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .75 : .58 : .58 : .75 : .58 : .58
Chloride, 600 lb cals	.08	: .087% : .077% :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .75 : .58 : .58 : .75 : .58 : .58
Chloride, 600 lb cals	.08	: .087% : .077% :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .75 : .58 : .58 : .75 : .58 : .58
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Phenylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drma 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acctate drums gal. Methyl Acctone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethyl paraminophenol sulfate 100 lb drs b. NAPHTHALENE, flakes, 175 lb bbls wks lb Balls, 250 lb wks lb	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Phenylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drma 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acctate drums gal. Methyl Acctone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethyl paraminophenol sulfate 100 lb drs b. NAPHTHALENE, flakes, 175 lb bbls wks lb Balls, 250 lb wks lb	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Phenylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drma 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acctate drums gal. Methyl Acctone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethyl paraminophenol sulfate 100 lb drs b. NAPHTHALENE, flakes, 175 lb bbls wks lb Balls, 250 lb wks lb	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Phenylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drma 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acctate drums gal. Methyl Acctone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethyl paraminophenol sulfate 100 lb drs b. NAPHTHALENE, flakes, 175 lb bbls wks lb Balls, 250 lb wks lb	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Nitro-para Toluidine, 200 lb bbla b. Meta-Phenylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drma 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. Synthetic drums, lc-1 gal. Methyl Acctate drums gal. Methyl Acctone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethyl paraminophenol sulfate 100 lb drs b. NAPHTHALENE, flakes, 175 lb bbls wks lb Balls, 250 lb wks lb	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals	.90 .72	: .08% : .07% : 126.00 : .74 : 1.70 : .94 : .76 : .55 : .57 : .58 : .60 : .60
Chloride, 600 lb cals	.90 .72	: .087½ : 1.077½ : 1.26.00 : .74 : 1.70 : .94 : .75 : .55 : .57 : .58 : .58 : .75 : .98 : .75 : .98 : .105 : .4.20 : .04 : .24 : .38 : .09% : .39%
Chloride, 600 lb caks b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-para Toluidine, 200 lb bobla lb. Meta-Nenylenediamine, 300 lb bbls lb. Meta-Phenylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. Meta-Toluylenediamine, 300 lb bbls lb. METHANOL (Wood Alcohol) drums 95% gal. 97% drums, lc-1 gal. Pure drums, lc-1 gal. Synthetic drums, lc-1 gal. I. S. denat. grd, tanks. gal. Methyl Acetate drums gal. Methyl Acetone, 100 gal drums gal. Chloride, 90 lb cyl gal. Monomethylandline, 900 lb drs lb. Monomethyl paraminophenol sulfate 100 lb drs lb. NAPHTHALENE, flakes, 175 lb bbls wks lb. Balls, 250 lb wks lb. Crushed, chipped bgs wks lb. Oxide, 100 lb kogs NY lb. Salt single 400 lb bbls NY lb. Nicotine, Free, 40% 8 lb tins cs. lb. Nicotine, Free, 40% 8 lb tins cs. lb.	.00 .07 .72 .90 .72 .55 	: .08½ : .07½ :126.00 : .74 : 1.70 : .94 : .74 : .55 : .57 : .58 : .58 : .58 : .58 : .58 : .58 : .58 : .58 : .95 : .00 : .04½ : .38 : .09 : .09½ : .38
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-artiline b. Meta-Diuylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drms 95% gal. 97% drums, le-1 gal. Pure drums, le-1 gal. U. S. denat. grd., tanks. gal. Methyl Acetate drums Methyl Acetane, 100 gal drums gal. Chloride, 90 lb cri gal. Monethylandline, 900 lb drs b. Monomethyl paraminophenol sulfate 100 lb drs b. MAPHTHALENE, flakes, 175 lb bbls wks lb. Balls, 250 lb wks lb. Nicotine, Chloride, bbls kegs b. Nicotine, Free, 40% 8 lb tins s lb. Nicotine Sulfate 10 lb tins b. Nitro Cine, 500 lb. bbls b.	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	: .087% : 1.26.00 : .74 : 1.70 : .94 : .55 : .57 : .58 : .58 : .75 : .98 : .75 : .98 : .00 : .04% : .24 : .38 : .09% : .09% : 1.10
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-artiline b. Meta-Diuylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drms 95% gal. 97% drums, le-1 gal. Pure drums, le-1 gal. U. S. denat. grd., tanks. gal. Methyl Acetate drums Methyl Acetane, 100 gal drums gal. Chloride, 90 lb cri gal. Monethylandline, 900 lb drs b. Monomethyl paraminophenol sulfate 100 lb drs b. MAPHTHALENE, flakes, 175 lb bbls wks lb. Balls, 250 lb wks lb. Nicotine, Chloride, bbls kegs b. Nicotine, Free, 40% 8 lb tins s lb. Nicotine Sulfate 10 lb tins b. Nitro Cine, 500 lb. bbls b.	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	: .087% : 1.26.00 : .74 : 1.70 : .94 : .55 : .57 : .58 : .58 : .75 : .98 : .75 : .98 : .00 : .04% : .24 : .38 : .09% : .09% : 1.10
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-artiline b. Meta-Diuylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drms 95% gal. 97% drums, le-1 gal. Pure drums, le-1 gal. U. S. denat. grd., tanks. gal. Methyl Acetate drums Methyl Acetane, 100 gal drums gal. Chloride, 90 lb cri gal. Monethylandline, 900 lb drs b. Monomethyl paraminophenol sulfate 100 lb drs b. MAPHTHALENE, flakes, 175 lb bbls wks lb. Balls, 250 lb wks lb. Nicotine, Chloride, bbls kegs b. Nicotine, Free, 40% 8 lb tins s lb. Nicotine Sulfate 10 lb tins b. Nitro Cine, 500 lb. bbls b.	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	: .087% : 1.26.00 : .74 : 1.70 : .94 : .55 : .57 : .58 : .58 : .75 : .98 : .75 : .98 : .00 : .04% : .24 : .38 : .09% : .09% : 1.10
Chloride, 600 lb cals b. Sulfate, 550 lb drums NY b. MERCURY, metal 75 lb flask, flask Meta-Nitro-artiline b. Meta-Diuylenediamine, 300 lb bbls b. Meta-Toluylenediamine, 300 lb bbls b. METHANOL (Wood Alcohol) drms 95% gal. 97% drums, le-1 gal. Pure drums, le-1 gal. U. S. denat. grd., tanks. gal. Methyl Acetate drums Methyl Acetane, 100 gal drums gal. Chloride, 90 lb cri gal. Monethylandline, 900 lb drs b. Monomethyl paraminophenol sulfate 100 lb drs b. MAPHTHALENE, flakes, 175 lb bbls wks lb. Balls, 250 lb wks lb. Nicotine, Chloride, bbls kegs b. Nicotine, Free, 40% 8 lb tins s lb. Nicotine Sulfate 10 lb tins b. Nitro Cine, 500 lb. bbls b.	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	: .087% : 1.26.00 : .74 : 1.70 : .94 : .55 : .57 : .58 : .58 : .75 : .98 : .75 : .98 : .00 : .04% : .24 : .38 : .09% : .09% : 1.10
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 .07 .72 .90 .72 .55 .3.95 .99 1.25 13.00	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	08½07½ . 126.0074 . 1.70947455575858759875980004½240809½240909½1010½243809½1010½243809½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½1513¼25007
Chloride, 600 lb cals	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	08½07½ . 126.0074 . 1.70947455575858759875980004½240809½240909½1010½243809½1010½243809½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½13¼09½1513¼25007
Chloride, 600 lb cals	.08 % .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	. 083/2 . 007 1/4 . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00
Chloride, 600 lb cals	.08 % .09 1.25 13.00 .10 ½ .220 2.35 3.85	. 087½ . 126.00

Pure Phthalic Anhydride



Phthalic Anhydride of the highest purity has been produced by us in commercial quantities for over 9 years and this pure Phthalic Anhydride is well-known to the trade as SELDEN BRAND. Its form is the natural long needle crystal which dissolves and melts much more rapidly than in any other form.

We pack this material in new slack barrels containing 150-lb. net weight of Phthalic Anhydride and these packages are so constructed that their use for re-shipment is a well established fact among our customers.

Our service on Phthalic Anhydride is unexcelled and we are in position to make prompt shipment in carload lots.

Your inquiries will have our prompt attention and we will be pleased to furnish quotations and samples at your request.

THE SELDEN COMPANY

Pittsburgh, Pa., U.S.A.

Para-Dichlorbenzene Sodium Acetate

Chemicals

Para Dichlorobenzene, 150 h bbls		
wks	.17	: .20
Paraldehyde 110-55 gal drs To Para-Cymena Ref d. 110 gal drs gal	.26 2.25	2.50
Para-Nitroacetanilid 300 m bbls m	.50	: .55
PARA-NITROANILINE, 300 m bbls wks single bbls m		
wks single bble Ib Para-Nitrochlosobenzene, 1,200 lb drs	.52	: .53
wks	***	: .32
Para-Nitro-ortho Toluidine, 300 lb	2.75	: 2.85
Para-Nitrophenol 185 m bhle m	.50	: .55
Para-Nitrosodimethylaniline, 120 lb		
bbls	.92	: .94
Para-Nitroluene, 350 m bbls m Para-Phenylenediamine 350 m bbls m		: 1.15
Para-Toluene-Sulfonamide, 175 h		. 1.10
bbls	.40	: .41
Para-Toluene-Sulfonchloride, 410 lb bbls wks lb	.20	.22
Para-Toluidine, 3 50 lb bbls wks lb.		: .45
PARIS GREEN, Arsenic Basis, 500 b kegs b		
Arsenic Basis, 500 lb kegs lb Kegs, 100 lbs lb	.19	: .20
PETROLATIM green 300lb bble lb	.021/2	
PETROLATUM, green 3001b bbls 1b Phenol Small drums 250100 fb fb	.17	: .18
Phenyl-Alpha-Naphthylamine 100 h		
kegs		: 1.35
Phosphorus, red 110 lb cs lb Yellow 110 lb cs wks lb	.60	: .65
Phosphorous-Oxychloride 175 m cyl m		: .40
Phosphorous Sesquisulfide 100 m	.00	10
cases		: .46
Phthalic, Anyhdride, 100 lb bbls wks	.18	: .20
Potash, Caustic, Imp., c-l, cks Ib		: .07%
Domestic, wks	* * *	: .07%
Potash salts, rough Pot. Muriate basis 80% bgs ton		: 36.40
Pot. Sulfate, basis 90% bgs ton		: 47.30
Pot. & Mag, Sulfate basis 48%		
bagston		: 27.00
Manure Salts basis 30% bulk ton		: 18.75
Manure Salts basis 20% bulk ton Kainit, basis, 12.4% bulk ton		: 12.40 : 9.00
Kainit, basis, 14% bulkton		: 9.50
tons 10%		
POTASSIUM Bicarb USP 320 ID	00	. 001/
Bishramate crue 795 B coles B	.09	
Bichromate, crys., 725 lb csks lb Powd., 725 csks wks lb	.12	: .1236
Powd., 725 esks wks Ib Binoxiate, 300 lb bbls lb Bisulfate, 100 lb kegs lb	. 4.0	
CARBONATE, 80-85% calc.		
800 ID cks ID	.05 %	: .30
	.0078	
Chlorate cryst powd 112 h kegs	.0078	: .05%
Chlorate cryst powd 112 m kegs wks	.081/2	: .05% : .09
Imp., 112 b NY b	.081/2	: .05% : .09 : .08%
wks	.081/2	: .05% : .08% : .05%
wks	.081/2 .081/4 .05%	: .05 % : .09 : .08 % : .05 % : .28
wks	.08 1/4 .08 1/4 .05 1/4 .27 .55	: .05% : .09 : .08% : .05% : .28 : .57% : .12
wks	.08 1/2 .08 1/4 .05 3/6 .27	: .05% : .09 : .08% : .05% : .28 : .57% : .12
wks	.08½ .08½ .05% .27 .55 .11½	: .05% : .09 : .08% : .05% : .28 : .57% : .12 : .17
wks	.081/4 .081/4 .051/6 .27 .55 .111/4 .16	: .05% : .09 : .08% : .05% : .28 : .57% : .12 : .17
wks	.081/4 .081/4 .051/6 .27 .55 .111/4 .16	: .05% : .09 : .08% : .05% : .28 : .57% : .12 : .17 : .14% : .18% : .18%
wks	.081/4 .081/4 .051/6 .27 .55 .111/4 .16	: .05% : .09 : .08% : .05% : .28 : .57% : .12 : .17 : .14% : .18% : .18%
wks	.08 ½ .08 ½ .05 % .27 .55 .11 ½ .16 .14 ¼ .37 ½ .18	: .05 % : .09 : .08 % : .05 % : .28 : .57 % : .14 % : .38 % : .18 % : .51 : .25
wks	.08 ½ .08 ½ .05 % .27 .55 .11 ½ .16 .14 ¼ .37 ½ .18	: .05 % : .09 : .08 % : .05 % : .28 : .57 % : .14 % : .38 % : .18 % : .51 : .25
wks	.08 ½ .08 ½ .05 % .27 .55 .11 ½ .16 .14 ¼ .37 ½ .18	: .05 % : .09 : .08 % : .05 % : .28 : .57 % : .14 % : .38 % : .18 % : .51 : .25
wks	.08 ½ .08 ½ .05 % .27 .55 .11 ½ .16 .14 ¼ .37 ½ .18	: .05 % : .09 : .08 % : .05 % : .28 : .57 % : .14 % : .38 % : .18 % : .51 : .25
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .18 .45	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .18 .45	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .18 .45	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .1850 .45	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .18150 .45 19.00 .06½	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .18150 .45 19.00 .06½	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .181.50 .45 19.00 .08½ 6.00 .08½	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .181.50 .45 19.00 .06½ 6.00 .06½ 6.00 .2.14	: .05% : .09 : .08½ : .08½ : .08½ : .28% : .28% : .17 : .14½ : .38 : .18½ : .125 : .1.75 : .46 : 20.00 : .06½ : .01½ : .7.00 : .06½ : .7.00 : .50.00 : 50.00 : 50.00 : 2.29
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .181.50 .45 19.00 .06½ 6.00 .06½ 6.00 .2.14	: .05% : .08
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .1850 .45 19.00 15.00 32.00 35.00 2.14	: .05% : .09 : .08½ : .08½ : .28% : .28% : .12 : .12 : .14½ : .38 : .18½ : .25 : .1,75 : .46 : .20,00 : .17,00 : .01½ : .01½ : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .00 : .01½
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .1850 .45 19.00 15.00 32.00 35.00 2.14	: .05% : .09 : .08½ : .08½ : .28% : .28% : .12 : .12 : .14½ : .38 : .18½ : .25 : .1,75 : .46 : .20,00 : .17,00 : .01½ : .01½ : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .00 : .01½
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .1850 .45 19.00 15.00 32.00 35.00 2.14	: .05% : .09 : .08½ : .08½ : .28% : .28% : .12 : .12 : .14½ : .38 : .18½ : .25 : .1,75 : .46 : .20,00 : .17,00 : .01½ : .01½ : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .00 : .01½
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .181.50 .45 19.00 .06½ 6.00 .32.00 55.00 2.14 3.76 4.16	: .05% : .09 : .08½ : .08½ : .28% : .28% : .12 : .12 : .14½ : .38 : .18½ : .25 : .1,75 : .46 : .20,00 : .17,00 : .01½ : .01½ : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .01½ : .00 : .01½ : .00 : .01½ : .00 : .01½
wks	.08½ .08½ .05% .27 .55 .11½ .16 .14¼ .37½ .181.50 .45 19.00 .06½ 6.00 .32.00 55.00 2.14 3.76 4.16	: .05% : .09

Cream of Tartar - The market | SODIUM (Cont.) is weaker and 261/2c lb. is offered for imported with domestic 1/4c lb. higher. This market is also responsible for the shading, which might result in a revision in domestic prices.

Dimethylaniline - Has been advanced owing to the high costs of aniline. Prices for drums now range 30c@34c 1b.

Glycerin - Remains weak and even to-day's prices do not attract the consumers. Chemically pure is 23c@231/2c lb. and dynamite may be bought at 19c@20c lb.

Mercury - Was advanced this week to \$126.00 flask and is exceedingly strong. This move is a result of the disposal of the Spanish production at a high price and no reductions are foreseen for some time.

Naphthalene - The spot market has been advanced to 5c lb. for flakes and 6c lb. for balls but there is practically no business being done. No future business is being done and future prices will probably be announced next week and it is rumored that they will be higher, probably at an equal level to current spot prices.

Nitrobenzene - Higher owing to the advance in aniline and current quotations are placed at 101/4c@ 101/2c lb.

Para-Toluidine - Is firmer at 40c@45c lb. with business of good size and sufficient to withdraw lower quotations which had been heard.

R Salt - This market is also strong and featured with a fair amount of business at 45c@46c lb.

Sodium Sulfide - All grades of this material are in a favored position and an added amount of interest has been seen over the past month. It is not likely that the market will weaken.

Vermillion - The market is currently placed at \$1.95 lb. and while the advance in mercury should affect it further, a material rise would cause consumers to use a cheaper

Zinc - Metal is lower but no change has been made in its derivatives as yet.

OILS AND FATS

Castor Oil - Prices show no change over the past month, No. 1 still being quoted at 13c lb. and No. 3 at 121/2c lb.

Chinawood Oil - A sharp decline has featured the market this week so that some factors expect

Sodium	Bicar	bonate
	Zinc	Metal

Bichromate, 500 lb casks wks lb .06 1/4 .06		2.4			
Carbonate 350 fb bbls NY 100 fb 1.30				***	Bicarbonate 400 lb bbls NY100 lb
Carbonate 350 fb bbls NY 100 fb 1.30	014	.0	14:	.06	Bichromate, 500 lb casks wks lb
Cyanide 96-98% 100 & 250 lb drums wks D Silicolluride 300 lb bils wks D 0.834 0.05	5 73	1.0		1 90	Carbonate 250 % bble NV 100 %
Cyanide 96-98% 100 & 250 lb drums wks D Silicolluride 300 lb bils wks D 0.834 0.05	0	13.0		12.00	Chloride, tech
Cyanide 96-98% 100 & 250 lb drums wks D Silicolluride 300 lb bils wks D 0.834 0.05	6%	.0	1/2:	.06	Chlorate, 112 lb kgs wks lb
Grums wks					Cyanide 96-98% 100 & 250 D
Hypochlorate Soln 100 lb cbys lb Hydrosulfite 200 lb bbls fob wks lb .22 .24 HyPOSULFITE, tech., pea crys .375 lb bbls., wks 100 lb 2.45 .3.04 Metanliate, 150 lb bbls .1b .15 .44 Naphthlonate, 300 lb bbls .1b .55 .55 Nitrate crude, 95% 200 lb bgs .10 lb .240 .2.46 Naphthlonate, 300 lb bbls .1b .55 .55 Nitrate crude, 95% 200 lb bgs .10 lb .240 .2.44 Nov. Shipment .100 lb .240 .2.45 Nov. Shipment .100 lb .2.40 .2.45 Nov. Shipment .100 lb .2.5 .22 Nov. Shipment .100 lb .25 .22 Perborate, 275 lb bbls .1b .25 .22 Perborate, 275 lb bbls .1b .21 .22 Perborate, 275 lb bbls .10 lb .3.25 .3.51 Para-Toluene Sulfonate 175 lb .10 lb .3.25 .3.51 Para-Toluene Sulfonate 175 lb .1b .3.91 Para-Toluene Sulfonate 175 lb .10 lb .3.91 PRUSSIATE, yellow 350 lb bbls .10 lb .3.91 Pryrophosphate 100 lb kegs .10 lb .3.91 Pryrophosphate 100 lb kegs .10 lb .3.91 Pryrophosphate 100 lb kegs .10 lb .3.91 A0° clear drs wks 100 lb .35 .11 40° clear drs wks .10 lb .35 .14 Sulfate Anhydrous .550 lb .15 Sulfide, 60% solid, 650 lb drs .1e .1k Sulfate Anhydrous .550 lb .1e .1k Sulfate .600 lb .501 lb .1e .1k Sulfate .600 lb .501 lb .1e .1k Sulfate .600 lb .501 lb .501 lb .501 lb Sulfate .600 lb .501 lb .		.20	. :	***	drums wks
HYPOSULFITE, tech., pea crys 375 h bbls., wks 100 h 2.40 : 2.65 : 3.05			%:	.08	Fluoride, 300 lb bbls wks lb
HYPOSULFITE, tech., pea crys 375 h bbls., wks 100 h 2.40 : 2.65 : 3.05			:		Hypochlorate Soln 100 lb cbys lb
Regular crys., bbls wks 100 D 2.40 2.61 Metanliate, 150 D bbls D 5.4 Naphthlonate, 300 D bbls D 5.5 5.5 Nitrate crude, 95% 200 D bgs .	*	. 2		.22	
Regular crys., bbls wks 100 D 2.40 2.61 Metanliate, 150 D bbls D 5.4 Naphthlonate, 300 D bbls D 5.5 5.5 Nitrate crude, 95% 200 D bgs .	K	3.0		9.65	975 h bble who 100 h
Matchilate, 150				2.40	Postular arms bble who 100 m
Naphthlonate, 300 bbls bbls b 55 55 15 Nitrate crude, 95% 200 b bs c-1 NY 100 b 2.40 2.44 Nov. Shipment 100 b 2.40 2.44 Nov. Shipment 100 b 2.33 Nov. Shipment 100 b 2.35 2.25 2.25 Porborate, 275 b b b b 2.25 2.25 Perborate, 275 b b b b 2.21 2.25 Perborate, 275 b b b b b 2.21 2.25 Perborate, 275 b b b b b b b b b	5	2.0		2.40	Metanilate 150 h bbls
Nitrate crude, 95% 200 fb bgs c-1 NY					Nanhthlonate 300 m bhla m
c-1 NY					I Nitrate crude, 95% 200 b bgs
Orthro-Chloro-Toluene Sulfonate 175 lb bbls wks lb .25 : .2: 0 calate, neutral, 100 lb kegs lb .20 : .2: Perborate, 275 lb bbls lb .21 : .2: Perborate, 275 lb bbls lb .32 : .3.5! Para-Toluene Sulfonate 175 lb lb .3.9! Para-Toluene Sulfonate 175 lb lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 40° clear drs wks 100 lb .12 : 1.4! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 Sulfate Anhydrous 550 lb bbls lb .3! Sulfate Anhydrous 550 lb bbls la .18 Sulfate Anhydrous 550 lb bbls lb .34'04 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfite, cryst 400 lb bbls wks lb .02'403 Sultite, cryst 400 lb bbls wks lb .03'403 Solvent Maphtha, 110 gal drs wks gal .3540 SILOHUR Crude, fob mines ton 18.00 19.00 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Flowers 100% 155 lb bbls NY lb .08 Sulfur Chloride, red, 700 lb drs wks lb .0504 Yellow, 700 lb drs wks lb .0304 Sulfur Chloride, 600 lb drs lb .0505 Yellow, 700 lb drs wks lb .0305 Sulfur Chloride, 600 lb bls lb05 Tracked oven, Tks., wks gal .0705 Sulfur Dioxide, 150 lb cyl lb .0505 Tin, metal Strait, NY lb	5	2.4	:	2.40	e-1 NY 100 fb.
Orthro-Chloro-Toluene Sulfonate 175 lb bbls wks lb .25 : .2: 0 calate, neutral, 100 lb kegs lb .20 : .2: Perborate, 275 lb bbls lb .21 : .2: Perborate, 275 lb bbls lb .32 : .3.5! Para-Toluene Sulfonate 175 lb lb .3.9! Para-Toluene Sulfonate 175 lb lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 40° clear drs wks 100 lb .12 : 1.4! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 Sulfate Anhydrous 550 lb bbls lb .3! Sulfate Anhydrous 550 lb bbls la .18 Sulfate Anhydrous 550 lb bbls lb .34'04 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfite, cryst 400 lb bbls wks lb .02'403 Sultite, cryst 400 lb bbls wks lb .03'403 Solvent Maphtha, 110 gal drs wks gal .3540 SILOHUR Crude, fob mines ton 18.00 19.00 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Flowers 100% 155 lb bbls NY lb .08 Sulfur Chloride, red, 700 lb drs wks lb .0504 Yellow, 700 lb drs wks lb .0304 Sulfur Chloride, 600 lb drs lb .0505 Yellow, 700 lb drs wks lb .0305 Sulfur Chloride, 600 lb bls lb05 Tracked oven, Tks., wks gal .0705 Sulfur Dioxide, 150 lb cyl lb .0505 Tin, metal Strait, NY lb	71/2	2.3	:		Nov. Shipment100 lb.
Orthro-Chloro-Toluene Sulfonate 175 lb bbls wks lb .25 : .2: 0 calate, neutral, 100 lb kegs lb .20 : .2: Perborate, 275 lb bbls lb .21 : .2: Perborate, 275 lb bbls lb .32 : .3.5! Para-Toluene Sulfonate 175 lb lb .3.9! Para-Toluene Sulfonate 175 lb lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Prophosphate 100 lb kegs lb .3.9! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 40° clear drs wks 100 lb .12 : 1.4! Silicate, 40° turbid, 55 gal drums wks 100 lb .35 : 1.10 Sulfate Anhydrous 550 lb bbls lb .3! Sulfate Anhydrous 550 lb bbls la .18 Sulfate Anhydrous 550 lb bbls lb .34'04 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfide, 60% solid, 650 lb drs lc-1 wks lb .03'404 Sulfite, cryst 400 lb bbls wks lb .02'403 Sultite, cryst 400 lb bbls wks lb .03'403 Solvent Maphtha, 110 gal drs wks gal .3540 SILOHUR Crude, fob mines ton 18.00 19.00 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Brimstone Broken Rock 250 lb bgs lb .07'401 Flowers 100% 155 lb bbls NY lb .08 Sulfur Chloride, red, 700 lb drs wks lb .0504 Yellow, 700 lb drs wks lb .0304 Sulfur Chloride, 600 lb drs lb .0505 Yellow, 700 lb drs wks lb .0305 Sulfur Chloride, 600 lb bls lb05 Tracked oven, Tks., wks gal .0705 Sulfur Dioxide, 150 lb cyl lb .0505 Tin, metal Strait, NY lb	81/4	.08	:	.08	Nitrate, 500 lb bbls spot mkrs lb
Perborate, 275					I Orthro_Chloro_Toluene Sulfonate
Perborate, 275	7	.2	:	.25	175 lb bbls wks lb
Para-Toluene Sulfonate 175 lb bbls	0	.21	:	.20	Desharate Office bale
Para-Toluene Sulfonate 175 lb bbls lb .08 .05	4		٠	.21	Phosphate di-sodium tech 550 fb
Para-Toluene Sulfonate 175 lb bbls	5	3.5	:	3.25	Bbls100 lb
Delta Delt					Para-Toluene Sulfonate 175 lb
PRUSSIATE, yellow 350 lb bbls wks lb 12 15					bbls
Wiss	0	.3.90	:		
Pyrophosphate 100 lb legs lb like legs lb like legs lb like	011				PRUSSIATE, yellow 350 lb bbls
40° clear drs wks 100. lb 1.20 : 1.44 : .05 Silicofluoride 450 lb bils NY lb .04 ½ : .05 Stannate, 100 lb drums lb .34 ½ : .45 Sulfataliate 400 lb bils lb .16 : .15 Sulfate Anhydrous 550 lb bils c-l wks lb .02 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .03 ½ : .05 SOLVENT HAPPHTHA, 110 gal drs wks lb .07 ½ : .05 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils wks lb .07 ½ : .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .05 C-l 100 lb .2.55 Eb lb lb NY c-l 100 lb .2.55 Eb lb lb NY c-l 100 lb 34 EV Lifur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Dloxide, 150 lb cyl lb .0505 100 Extra Dry, 100 lb cyl lb .05				.12	wks
40° clear drs wks 100. lb 1.20 : 1.44 : .05 Silicofluoride 450 lb bils NY lb .04 ½ : .05 Stannate, 100 lb drums lb .34 ½ : .45 Sulfataliate 400 lb bils lb .16 : .15 Sulfate Anhydrous 550 lb bils c-l wks lb .02 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .03 ½ : .05 SOLVENT HAPPHTHA, 110 gal drs wks lb .07 ½ : .05 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils wks lb .07 ½ : .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .05 C-l 100 lb .2.55 Eb lb lb NY c-l 100 lb .2.55 Eb lb lb NY c-l 100 lb 34 EV Lifur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Dloxide, 150 lb cyl lb .0505 100 Extra Dry, 100 lb cyl lb .05	4	.14	%:	.13	Pyrophosphate 100 lb kegs lb
40° clear drs wks 100. lb 1.20 : 1.44 : .05 Silicofluoride 450 lb bils NY lb .04 ½ : .05 Stannate, 100 lb drums lb .34 ½ : .45 Sulfataliate 400 lb bils lb .16 : .15 Sulfate Anhydrous 550 lb bils c-l wks lb .02 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfide, 60% solid, 650 lb drs lc-l wks lb .03 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .02 ½ : .05 Sulfite, cryst 400 lb bils wks lb .03 ½ : .05 SOLVENT HAPPHTHA, 110 gal drs wks lb .07 ½ : .05 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils wks lb .07 ½ : .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .06 SULFHUR Crude, fob mines ton 18.00 : 19.00 Brinstone Broken Rock 250 lb bils lb .05 C-l 100 lb .2.55 Eb lb lb NY c-l 100 lb .2.55 Eb lb lb NY c-l 100 lb 34 EV Lifur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Chloride, red, 700 lb drs wks lb .05 .05 Sulfur Dloxide, 150 lb cyl lb .0505 100 Extra Dry, 100 lb cyl lb .05	0	1.16		85	Silicate, 40° turbid, 55 gai
Silicotluoride 450 fb bbb NY fb 16		1.4		1 20	400 alone des wire 100 Th
Stannate, 100 lb drums lb .48 \(\frac{1}{2} \) .46 Sulfate Anhydrous .50 lb .50 lb .50 lb C-1		.0	4:	.04	Silicofluoride 450 m bbls NY m
Sulfate		.45	4:	.48	
Sulfate Anhydrous 550 lb bbls c-l wks lb 0.2 \(\frac{1}{2} \) .02 \(\frac{1}{2} \) .02 \(\frac{1}{2} \) .02 \(\frac{1}{2} \) .03 \(\frac{1}{2} \) .04 \(\frac{1}{2} \) .03 \(\frac{1}{2} \) .04 \(\frac{1}{2} \) .03 \(\frac{1}{2} \) .03 \(\frac{1}{2} \) .04 \(\frac{1}{2} \) .04 \(\frac{1}{2} \) .05 \(\frac{1}{2} \) Sulfite, cryst 400 lb bbls wks lb .03 \(\frac{1}{2} \) .05 \(\frac{1}{2} \) Sulfite, cryst 400 lb bbls wks lb .03 \(\frac{1}{2} \) .05 \(\frac{1}{2} \) SULPHUR Carbonate, 600 lb bbls wks lb .07 \(\frac{1}{2} \) .07 \(\frac{1}{2} \) .08 \(\frac{1}{2} \) .09 \(\frac{1}{2} \) .09 \(\frac{1}{2} \) .00		.18	:	.16	Sulfanilate 400 lb bbls lb.
C-1 wks					
30% crys 440 lb bbls wks lb .02½: .02 Sulfite, cryst 400 lb bbls wks lb .03½: .03 SULVENT NAPHTHA, 110 gal drs wks	2%	.02	14:		e-1 wks
30% crys 440 lb bbls wks lb .02½: .02 Sulfite, cryst 400 lb bbls wks lb .03½: .03 SULVENT NAPHTHA, 110 gal drs wks					Sulfide, 60% solid, 650 lb drs
Sulfite, cryst 400 m bbls wks m 0.03 \(\) .03 \(\) .05 \(\) SOLVENT NAPHTHA, 110 gal drs wks	4	.04	14:	.03	lc-l wks
SOLVENT NAPHTHA, 110 gal drs wks gal 35 : .40					
wks gal. 35 : 46 STRONTIUM, Carbonate, 600 lb bbls wks lb .07 ½: .07 Nitrate, 600 lb bbls NY lb .08 : .08 SULPHUR Crude, fob mines ton 18.00 : 19.00 Belimstone Broken Rock 250 lb bgs c-1 100 lb 2.00 Roll, 1 c-1 bbls NY 100 lb 2.00 Flour, Heavy bgs c-1 100 lb 2.50 Flour, Heavy bgs c-1 100 lb 2.50 Flour, Heavy bgs c-1 100 lb 2.50 Flowers 100% 155 lb bbls NY e-1 100 lb 3.46 Sulfur Chloride, red, 700 lb drs	3 1/2	.03	4		
STRONTIUM, Carbonate, 600 Ib bbls wks Ib 0.7 ½ 0.0	0	46			
Brimstone Broken Rock 2016 bgs C-1 100 lb 2.05 2.05 Roll, 1 c-1 bbls NY 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.56 Signature	U	.21		.33	WKSgal.
Brimstone Broken Rock 2016 bgs C-1 100 lb 2.05 2.05 Roll, 1 c-1 bbls NY 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.55 Ero Dusting c-1 99½% 100 lb bags NY 100 lb 2.46 Flowers 100% 155 lb bbls NY c-1 100 lb 3.44 Sulfur Chloride, red, 700 lb drs wks lb 0.5 0.5 Vellow, 700 lb drs wks lb 0.3 ½ 0.04 Sulfur Dloxide, 150 lb cyl lb 0.8 0.8 Extra Dry, 100 lb cyl lb 1.7 1.15 Sulfuryl Chloride, 600 lb drs lb 0.5 77 Tar Coke Oven, Ths., wks lb 0.3 ½ 1.05 Thiocarbanilid, 170 lb bbls lb 2.2 2.25 2	714	.03	4:	.07	bhle wks
Brimstone Broken Rock 2016 bgs C-1 100 lb 2.05 2.05 Roll, 1 c-1 bbls NY 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.55 Ero Dusting c-1 99½% 100 lb bags NY 100 lb 2.46 Flowers 100% 155 lb bbls NY c-1 100 lb 3.44 Sulfur Chloride, red, 700 lb drs wks lb 0.5 0.5 Vellow, 700 lb drs wks lb 0.3 ½ 0.04 Sulfur Dloxide, 150 lb cyl lb 0.8 0.8 Extra Dry, 100 lb cyl lb 1.7 1.15 Sulfuryl Chloride, 600 lb drs lb 0.5 77 Tar Coke Oven, Ths., wks lb 0.3 ½ 1.05 Thiocarbanilid, 170 lb bbls lb 2.2 2.25 2	814	.08	:	.08	Nitrate, 600 lb bbls NY lb
Brimstone Broken Rock 2016 bgs C-1 100 lb 2.05 2.05 Roll, 1 c-1 bbls NY 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.05 2.35 Flour, Heavy bgs c-1 100 lb 2.56 Signature	0	19.00	:	18.00	SULPHUR Crude, fob mineston
Roll, 1 e-1 bbis NY 100 B 2.65 : 2.85 Flour, Heavy bgs e-1 100 B For Dusting e-1 99½% 100 B bags NY 100 B Flowers 100% 155 B bbis NY e-1 100 B Sulfur Chloride, red, 700 B drs wks 10 05 05 Yellow, 700 B drs wks 10 05 05 Sulfur Dloxide, 150 B cyl 10 3½ 04 Sulfur Dloxide, 150 B cyl 10 17 14 Sulfuryl Chloride, 600 B drs 10 17 15 Sulfuryl Chloride, 600 B drs 10 22 Tetralene, 50gal drs wks 10 22 Tetralene, 50gal drs wks 10 22 TiN, metal Strait, NY 10 55 Bichloride, 50% sol'n 100 B bbis wks 10 17 Crystals, 500 lb bbis wks 10 24 Oxide, 300 lb bbis wks 10 77 Tetrachloride, 100 lb drs wks 10 77 Tetrachloride, 100 lb drs wks 10 77 Tetrachloride, 100 lb drs wks 10 77 Titanium Oxide 200 B bbis 10 44					Brimstone Broken Rock 250 ib Dgs
Flour, Heavy bgs c-1 100 fb For Dusting c-1 99½ % 100 fb bags NY 100 fb Flowers 100 % 155 fb bbls NY c-1 100 fb Sulfur Chloride, red, 700 fb wls fb .05 03 ½ 04 Sulfur Obloxide, 150 fb cyl fb .08 08 Extra Dry, 100 fb cyl fb .08 08 Extra Dry, 100 fb cyl fb .17 14 Sulfuryl Chloride, 600 fb drs fb .65 70 Tar Coke Oven, Tks., wks gal .0709 Tetralene, 50gal drs wks fb 22 Tetralene, 50gal drs wks fb 24 TiN, metal Straft, NY fb 54 Bichloride, 50 % sol'n 100 fb			:	9.65	C-1
For Dusting e-1 99\(\frac{1}{2} \) \(\frac{1} \) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1}{2} \) \(\fr				2.00	Flow Horm has a 1 100 B
Dags NY	U	2.00	۰		For Dusting e-1 99% % 100 fb
Flowers 100% 155 m bbls NY e-l 100 m 3.48	0	2.40	:		
Yellow, 700 lb drs wks lb 03 1/4; 04 Sulfur Dioxide, 150 lb cyl lb 08 06 Extra Dry, 100 lb cyl lb 17 18 Sulfuryl Chloride, 600 lb drs lb 17 18 Sulfuryl Chloride, 600 lb drs lb 20 Tetralene, 50 gal drs wks lb 22 TiN, metal Strait, NY lb 55 Bichloride, 50% sol'n 100 lb 10 11 Crystals, 500 lb bbls wks lb 12 Oxide, 300 lb bbls wks lb 42 Oxide, 300 lb bbls wks lb 77 Tetrachloride, 100 lb drs wks lb 36 Titanium Oxide 200 lb bbls lb 44					Flowers 100% 155 b bbls
Yellow, 700 lb drs wks lb 03 1/4; 04 Sulfur Dioxide, 150 lb cyl lb 08 06 Extra Dry, 100 lb cyl lb 17 18 Sulfuryl Chloride, 600 lb drs lb 17 18 Sulfuryl Chloride, 600 lb drs lb 20 Tetralene, 50 gal drs wks lb 22 TiN, metal Strait, NY lb 55 Bichloride, 50% sol'n 100 lb 10 11 Crystals, 500 lb bbls wks lb 12 Oxide, 300 lb bbls wks lb 42 Oxide, 300 lb bbls wks lb 77 Tetrachloride, 100 lb drs wks lb 36 Titanium Oxide 200 lb bbls lb 44	5	3.48	:		NY c-1100 tb
Yellow, 700 lb drs wks lb 03 1/4; 04 Sulfur Dioxide, 150 lb cyl lb 08 06 Extra Dry, 100 lb cyl lb 17 18 Sulfuryl Chloride, 600 lb drs lb 17 18 Sulfuryl Chloride, 600 lb drs lb 20 Tetralene, 50 gal drs wks lb 22 TiN, metal Strait, NY lb 55 Bichloride, 50% sol'n 100 lb 10 11 Crystals, 500 lb bbls wks lb 12 Oxide, 300 lb bbls wks lb 42 Oxide, 300 lb bbls wks lb 77 Tetrachloride, 100 lb drs wks lb 36 Titanium Oxide 200 lb bbls lb 44					Sulfur Chloride, red, 700 lb drs
Extra Dry, 100 m cyl . m 17 : 14 Sulfuryl Chloride, 600 m drs . m 65 : 77 Tar Coke Ovine, Tks., wks . gal . 07 : .08 Tetralene, 50 gal drs wks . m	51/2	.0	. :	.05	WRS
Extra Dry, 100 m cyl . m 17 : 14 Sulfuryl Chloride, 600 m drs . m 65 : 77 Tar Coke Ovine, Tks., wks . gal . 07 : .08 Tetralene, 50 gal drs wks . m	2 73	.04	14:	.03	Yellow, 700 lb drs wks lb
Tar Coke Oven, Tks., wksgal .07 : .08 Tetralene, 50gal drs wks D 22 : .24 TiN, metal Strait, NY D 55 Bichloride, 50% sol'n 100 lb bbls wks D 11 Crystals, 500 lb bbls wks D42 : .44 0xide, 300 lb bbls wks D 77 Tetrachloride, 100 lb drs wks 70 Titanium 0xide 200 lb bbls D 44		.00		17	Sulfur Dioxide, 150 lb cyl lb
Tar Coke Oven, Tks., wksgal .07 : .08 Tetralene, 50gal drs wks D 22 : .24 TiN, metal Strait, NY D 55 Bichloride, 50% sol'n 100 lb bbls wks D 11 Crystals, 500 lb bbls wks D42 : .44 0xide, 300 lb bbls wks D 77 Tetrachloride, 100 lb drs wks 70 Titanium 0xide 200 lb bbls D 44		7/		0.5	Sulfaced Chloride COOP des B
Tetralene, 50gal drs wks . D	8	.01		.07	Tar Coke Oven. The why cal
Thiocarbanilld, 170 lb bbls lb 22 : 24 TIN, metal Strait, NY lb					Totalene 50cel des who Th
TiN, metal Strait, NY b				.22	Thiocarbanilid, 170 b bbls b
Bichloride, 50% sol'n 100 mb bbls wks mb			:		TIN metal Strait NV Th
Crystals, 500 lb bbls wks b					Bichloride, 50% sel'n 100 lb
Oxide, 300 lb bbls wks fb	73%	.1	:	***	DOIS WAS
Tetrachloride, 100 lb drs wks lb					
Titanium Oxide 200 lb bbls lb : .40	8	.7			Uxide, 300 lb bbls wks lb .
Pigment, hhls wks					
	4	.14	14:	.13	Pigment, bbls wks
Tolidine, 350 m bbls m .90 : .94	4	.94			Tolidine, 350 m bbls
Toluene, 8,000 gal tnk cars wks gal : .38	5	.31			
110 gal des wksgal 40	0	.40			110 gal drs wksgal
Toluidine, Mixed, 900 lb drs wks lb .31 : .32	2	.3:		.31	
Toner Lithol Red bbls b .85 : .90	0	.90	:	.85	Toner Lithol Red bbls
Para Red DDIS	U	.80		.70	
Toluidine				2.00	Trincetin 50cal des arts
Triacetin, 50gal drs wksgal 3.60 : 3.90					
Triphenylguanidine	0	.73		.69	Urea Pure 112 h cares
Urea Pure, 112 b cases b .18 : .20 Vermillon English kegs b 1.95	5	1.9	:	110	Vermilion English kegs
XYLENE, 10° tanks wksgal : .38	8	.31			XYLENE, 10° tanks wksgal
Com'l tanks wksgal: 36 Xylidine crude	0	3			Com'l tanks wksgal
Xylidine crude	5	.3			ZING METAL blob grade slab
c-1 NY 100 fb : 6.40	0				c-l NY100 m
	3	0.31			



YEARS of unbroken service to the largest users of Alkali is one reason why every user of Alkali should be convinced of SOLVAY quality!

Solvay Benzaldehyde

Solvay Caustic Potash Liquor 45%

Solvay Calcium Chloride 73%-75%

Solvay Ammonium Chloride

Solvay Ammonium Bicarbonate

Solvay Paradichlorobenzene

Solvay Sodium Nitrite

Solvay 58% Soda Ash Dense—Light

Solvay Fluf (Extra Light Soda Ash)

Solvay 76% Caustic Soda Solid—Flake—Ground

Solvay Super Alkali

Solvay Snowflake Crystals (Trademark Registered)

Solvay Laundry Soda

Solvay Cleansing Soda

Solvay Tanners Alkali

Calara Tanara Cada

Solvay Tanners Soda

Solvay Liquid Caustic Soda

Solvay Sales Corporation



Alkalies and Chemical Products
Manufactured by The Solvay Process Company

40 Rector Street

New York

Boston S Cincinnati

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Pittsburgh

Detroit

Philadelphia

Kansas City

St. Louis

Atlanta

Zinc Ammonium Ch Soya Bean Oil	loride		Oils & Fats	Sper	rm O	il ue
ZING Amm Chloride, pwd 400 lb			an active reaction, although it is	Sperm 38° ct., blehd, bbls NY gal	.84	.85
bbls		6%	possible that this is a movement	45° cold test blehd bbls NY gal.	.79	
Chloride, fused 600 lb drs wks lb	: .(6	towards more normal levels. The	STEARIC ACID		
Granulated, 500 lb bbls wks lb Solution 50% taks wks 100 lb	.061/4: .0	634	spot market is down to 151/4c lb.@	Double pressed, bgs saponi %ed lb	.11%	
Cyanide, 100 lb drs lb.	.40 : .4	1	15½c lb. while sales on the Coast	Carlots b.		.11
Dust. 500 lb bbls c-1 wks lb.		19 1754	are reported at 123/4c@13c lb.	Triple pressed bgs dist b. Carlots b	.1314	
Oxide, Amer., bags wks Ib. French, 300 Ib bbls wks Ib.	.10%: .1	2%	Coconut Oil — The Coast market	Stearine Oleo bhls	•••	.13
Sulfate, 400 ID bbis wks ID .		33/4	for Manila remains unchanged at	Tallow edible tierces		.101/2
Sulfide, 500 lb bbls lb Sulfocarbolate, 100 lb kegs lb		0	81/4c@83/8c lb. while the spot market	City, Extra loose ID. Tallow Oil, acidless tks NY ID.	• • •	.081/2
grantom borner,			has declined 1/8c. The spot price on	Bbls c-1 NY ID		.111%
Oils @ Fa	ts		Ceylon has advanced 1/8c, but the	Whale, nat winter bbls NYgal Blchd, winter bbls NYgal	.76	.78 .80
			Coast price remains unchanged.	Extra blehd bbls NYgal	.80	.82
Castor, No. 1, 400 m bbls m.	.13 : .1	3 1/2	Corn Oil - Shows a further ad-	Turkey Red, Oil, single bbls Ib	.11	
No. 3	: .1		vance this week, tanks of crude oil	Double	.14	.16
China Wood bbls spot NY ID.	.151/4: .1	51/2	at the mills being quoted at 93/4c@	Industrial		
Tanks, Spot NY ID.	.12%: .1	om.	10c lb. and spot at 11c@111/4c lb.	Raw Materia	1_	
Coconut Ceylon 375 m bbls NY m.	.09%: .0	9%	Cottonseed Oil — The firm posi-		13	
8.000 gal tanks NI M.	.08%: .0	01/4	tion continues practically un-	Albumen, egg edible	.83 :	
Cochin, 375 D bbis NY D Tanks, NY D	: .0	914	changed. Although on Saturday	Blood, 225 bbls	.78 :	.83
Manila bhla NY		9 % 8 %	last the quotation on spot was 111/4c	vegetable edible	.60	.65
Tanks NY Ib. Tanks Pacific Coast Ib.	.081/4: .0	8 3/8	lb., a drop of 1/4c from the previous	Technical	.50	.55
Edible bbls NY ID	.12 : .1	21/2	week, crude oil at the mills showed	Archit., double 600 bble m	.13	.14
Cod Newfoundland, 50gal bbls gal Tanks, NYgal	.59 : .6		a corresponding rise, being quoted	Triple, 600 lb bbls lb. Cone, 600 lb bbls lb	.14	.15
Cod Liver, see Cod Liver Oil under	Chemicals		at 93/4c@10c lb.	ASDESTIDE C-1 WKE ton		14.75
Conva hage	.000	21/2	Greases — All grades continue	Bees Wax, white cases	.57 :	.58
Corn, ref. 375 b bbls NY b. Tanks b.	.11 : .1	11/2	very strong but with no change in	Crude, bags	.41	.42
Crude tanks mills Ib.	.09%: .1	11/4	price, choice white being quoted at	Blood dried fob NYunit	4.75 :	4.80
Bbls.NY	.09%: .1		10c lb.; yellow at 7½c lb. and brown	S Am Shipmentunit	4.75 :	4.90
PSY 100 bbls spot Ib.	: .1	11/4	at 7c lb.	Bone Raw Chicago ton 2	29.00	30.00
White, 100 bbls lots NY . fb.		1%	Lard Oil — Prices continue un-	Bone Ash 100 lb kegs		37.00
Degras. Amer., 50gal bbls NY ib.		4 1/2 5 1/2	changed at 123/4c for off prime; 11-	Candelilla Wax, bags		.081/4
English light bbls NY Ib. Brown, bbls NY Ib.		4 3/4	%c for extra and 115%c for extra	Carnauba Wax Flor bags	.27 :	.28 nom.
Greases choice white bbis NY ID.	.10 : .1	01/4	No. 1.	No. 1 Yellow, bags b. No. 2, regular bags b.	.60 :	.62
Yellow Ib. Brown Ib.	: .0	7 1/2	Linseed Oil — The market has	No. 2, N. Country bags Ib.	.55	.56
LARD OIL, edible prime D.	: .1		with spot continuing at 10.1c lb.	CHARCOAL		
Off prime bbls		2 %	Raw oil in tanks is firm at 9.3c lb.	Hardwood, lump, bulk wksbu Wood, powd., 100 lb bbls lb	.18	
Extra No. 1 bbls		1%	but the five barrel price has declined	Willow, powd 100 lb wks bbls lb	.04	
LINSEED, raw c-1 bbls spot . To .	: 10.1		slightly and is now quoted at 10.7.	Chestnut clarified 25% the wks Ib	.02	.021/4
Five bbls raw b. Tanks, raw b.	: 9.3		Oleo Oil — A rapid advance has	Powd. 60% 100 lb bags wks lb	.03	
Menhaden tanks Baltgal.	.63 : .4		been made in all grades during the	Decolorized bags wks	.0614	: .07
Light pressed, bbls NYgal	.66 : .6	7	past week, No. 1 now being quoted	Cutch Rangoon, 100 m bales . m.	.16	
Blown bbls NY th	:		at 171/4c lb., an advance of three	Tablets, 120 lb boxes lb	.13	.18%
Extra bleahed bbls NYgal	.67 : .6		cents; No. 2 at 15c lb.; and No. 3	Borneo solid, 100 m bales m	.051/2	.05%
Mineral Oil, white, 50 gal bbls gal Russian galgal	.80 : .8		at 12½c lb.	Cyanamide, bulk, c-l wks Amm unit Dextrin, white corn 140 lb bags	***	1.67%
Neatsfoot 20 deg. ct., bbls NY fb.	: .1	8	Olive Oil—Foots continue strong	e-1100 lb		: 3.72
Pure bbls NY		5%	but with no change in price, still	Canary		
Extra bbls NY	: .:	11%	being quoted at 101/4c@101/2c lb	Potato, white 220 lb bags 1c-1 lb Yellow, 220 lb bags . lb	***	.081/2
Oleo Oil, No. 1 bbls NY D. No. 2 bbls NY D.	: .1	71/4	Denatured oil is quiet at \$1.60@\$1.70	Taploca, 200 bags 1d 1 Ib	.08	0814
No. 3 bbls NY		21/2	gal. and edible oil steady at quoted	Divi Divi Extrat		nom,
OLIVE, denatured bbls NYgal.	1.60 : 1.7		levels.	Pods, bags shipton 4 Egg Yolk, 200 lb cs	.72	.75
Edible, bbls NYgal Foots bbls NY	.10 1/4: .1	01/4	Rapeseed Oil — On a noticeable	Ester Gums Dark, 280 m bbls m.	.13%	: .14
Palm Lagos, 1,500 lb casks fb.	.07%: .0	8	improvement in demand the price	Light 280 bbls	.14	
Niger casks Ib.		7%	of both English and blown advanced	Acid Bulk 7 & 31/2 Deliv	5.25	k 10
Palm Kernel Casks	.15%:	16	this week, the former 3c and the	Norfolk & Balt basisunit		nom.
Crude, bbls NY	.12 : .:	21/4	latter 2c, now being quoted at 88c@	Flavine Lemon 55 lb cslb Orange 70 lb cslb.		: 1.15
Perilla, bbls NY D. Tanks Coast D.	.141/9: .1	om.	90c gal. and \$1.02@\$1.04 respective-	Foesil Flour	.021/4	: .90
Poppyseed bbls NYgal	1.70 : 1.	15	ly. Simultaneously, Japanese de-	Fustic, solid 50 m boxes m	.20	: .23
Rapeseed bbls NY Japasesegal. Englishgal.	.84 : .8	6	clined 1c, now being quoted at 84c@	Crystals, 100 boxes To Liquid 51° 600 To bbls To		: .22
Blown bbls NYgal.	1.02 : 1.0	4	86c gal.	Fustic, sticks		. 32.00
Red Oil, distilled bbls		10 1/2	Tallow — Edible continues strong	Gall extract ID		: .05
Tanks		18 1/2	with no advance over the 10½c lb.	Gambier 25% liq., 450 m bbls m		: .21
Salmon, 8,000 gal the Coast .gal	.50 :	nom.	price of last week while extra loose	Common 200 m cases m.	.06	
Sardine, Tanks Pacito Coast gal Sesame edible yellow bbls Ib		1336	has advanced slightly, now being	Singapore, cubes, 150 lb bags lb	.12	: .15
White	.14 : .:	15	quoted at 8½c lb.	Gelatin Technical 100 lb cs lb bags e-1 NY 100 lb		3.24
Sod Oll, bbls NYgal	: .	10	Albumen — Egg albumen prices	Glucose (Grape Sugar) dry 70°		
SOYA BEAN, crude the Pac Cat. ID. Crude, the NY		9%	were reduced last week to 83c@87c	80° bags c-1NY100 m Tanners' Spel 100 bgs 100 m		3.34
Crude, bbls NY	.12 : .12	1/4	lb. for edible and 78c@83c lb. for	GLUE, pure white bbls	.22	3.14
Refined bbls NY	: .	13	technical. An easiness in the pri-	Medium white, bbls		: .24

Church & Dwight, Inc.

Established 1846

80 MAIDEN LANE

NEW YORK

Bicarbonate of Soda Sal Soda

Monohydrate of Soda

Standard Quality

Quality of "known reliability" in convenient new type containers

The excellence of WITCO Palm Oil is established by definite advantages. To maintain its quality and retain your satisfaction we established our own collecting stations in Africa. From the original source of supply through every exacting refining process the production of WITCO

Palm Oil is scientifically controlled.

Through the adoption of the convenient Large stocks con-WITCO containers—110-gallon drums — tinually on hand absorption and leakage have been elim-inated. This advantage is secured to our customers without additional cost to them.





MANUFACTURERS AND IMPORTERS NEW YORK, 25I FRONT ST. CHICAGO-CLEVELAND

Gums Oak Bark

Industrial Raw Materials

Osage Orange Whiting

GUM. Accroides. Red. coarse and			l
GUM, Accroides, Red, coarse and fine, 140-150 D bags Powdered, 150 D bgs D	.03%:	.041/2	mary market
Accroides, Yel. 150-200 lb bes Th	.06 :		ing demand
Accroides, Yel. 150-200 lb bgs fb Animi (Zanzibar) Bean and pea			yield to low
250 To cases	.35 :		unchanged.
Asphaltum, Baradoes, Manjak	.00 .	.00	Bees Wax
200 lb bags	.09 :	.12	fair demand
Egyptian, 200 lb cases lb Gilsonite selects 150 lb bgs ton Benzoin, Sumatra, Tech., 120 lb	.15 :	.17	are 57c@58c
Benzoin, Sumatra, Tech., 120 h	33.00 .	00.00	42c lb. for
cases	.30 :	.32	some direction
Copal, Congo, 112 lb bags Water White, lb	.35 :	.36	quoted.
Light Amber, ID	.121/4:	.14	
Dark Amber,	.08%:		Blood—Sel
Copal, East Indian 224 b cases	.14 .	.15	to maintain t
180 lb bags—			difficulty in d
Pale, E. I. Bold	.17 :	.171/2	ed supply.
180 lb bags— Pale, E. I. Bold lb Pale, E. I. Chips lb 180 lb bags—	.0172.	.00	in New You
Copal, Manila, 180-190 D			South Americ
Basketa-	10 .	101/	\$4,75@\$4.80 1
Pale Bold, Loba A, ID Pale Bold, Nubs, Loba B ID	.16 : .15 :	.161/2	Candelilla
Pale, Bold, Loba C Ib Pale Nubs, P. N Ib Pale Bold, 224 Ib cases Ib	.15 :	.131/2	this week.
Pale Bold, 224 b cases b	.12 :	.121/2	
Copal. Pontinak, 24 lb cases-		120	led with cur
Pale, Bold genuine No. 1 Ib Pale, genuine spot chips Ib	.25 :	.251/2	cause for a
Pale, genuine spot chips in Damar Batavla standard	.13 :	.141/4	lb.
	.24%:	.25	Carnauba 1
Batavia F Splinters 136 D Batavia F Splinters 136 D	.18 :	.181/2	and No. 2 regu
Batavia F Splinters 136 Ib Cases and bags	.14 :	.1436	Regular p
Batavia, Dust, 160 h bags h	.10%:		1b. and 55c
Singapore No. 1 224 lb cs Ib.	.32 1/2:	.33	and the chan
Singapore No. 2, 224 lb cslb	.221/2:	.22 1/2	ery due to a
Singapore No. 3, 180 lb bags 10.	.14 :		remaining gra
Elemi, No. 1, 80-85 lb cs lb.	.14 :	.15	prices and po
No. 2, 80-85 lb cases lb. No. 3, 80-85 lb cases lb.	.13 :	.14	
	.60 :		Fish Scrap
Kauri No. 1, 224-226 b cs. b No. 2, fair pale 224-226 b casesb			material are
	.38 :	.40	of the contin
Bush Chips 224-226 h cases	.38 :	.40	sults. This v
Pale Chips 224-226 b cases b			what stiffer,
Brown Chips 180-200 lb bgs lb	.10 :		ing the same
Sandarac Prime quality 220 ID	08 .	.26	sales have be
bags and 300 lb casks lb Graphite crude 220 lb bagston	.25 : 15.00 :		\$5.50 unit. T
Flake, 500 m bbls	.05 :		season is ap
HEMATINE, Paste, 500 m bbls m Crystals, 400 m bbls m	.09 : .12 :	.12	duction in pr
Crystals, 400 m bbls m	.12 :		Gums, Vari
Hemlock, 25% 600 bbls wks b	.03 1/2:	.03%	
Barkton Hypernic, 51° 600 lb bbls lb	.12 :	.15	varnish gum
Indigo Madras bbls	1.28 :	1.30	and a few r
20% paste drums Ib	.14 :	.08	Batavia E se
Solid powd	.17 :	.18	181/20 lb. Stan
KIESELGUHR, 95 m bgs NYton	60.00 :	70.00	ered 2c lb.
Larch 25% 600 b bbls wks b	.03%:	.04	Japan Wa
Larch 25% 600 b bbls wks b Powd. 100 b bags wks b			over supplied
Logwood 51° 600 m bbls m	.081/4:	.081/4	soft at 17c@
Solid, 50 lb boxes lb	.12		has not been
LOGWOOD sticheston	26.00 :	27.00	tions and fu
Chips 150 m bags	.03 :	.03 1/2	possible.
Madder, Dutch	••• :		
Mangrove 55% 400 m bbls m Marble Flour bulkton	10.00	nom.	Rosin — T
			is featured w
Mangrove Bark, Africanton			buying policy
Montan Wax, crude bags Ib Bleached bags Ib	.24	.27	mal amounts
Bleached bags	.04 :	.04 1/2	dock are: B,
50% solid 50 m boxes m	.08		G, H, I, K,
Myrobalans, bags, J1ton R2ton	32.00	41.00 34.00 34.00	\$11,25; WW,
J2ton	33.50	34.00	
Nitrogenous Material bulkunit		3.30	Valonia —
NUTGALLS, Chinese, bags Th	.17	.18	nominal posi
Aleppy bags			offerings.
Powd. bags	20.00	.24 23.00	\$60.00@\$62.00
Groundton	45.00		are offered in
Ground	.04	.03 1/2	@\$60.00 ton.
20-2070 Mq. OU ID DOIS WES ID	.01	-0 - /2	

mary market together with a lessening demand prompted importers to yield to lower bids. Vegetable is unchanged.

Bees Wax—Unchanged and in fair demand over the week. Prices are 57c@58c lb. for white and 41c@42c lb. for yellow refined but in some directions lower figures are quoted.

Blood—Sellers of blood continue to maintain the prices and have no difficulty in disposing of their limited supply. Sales have been made in New York at \$4.85 unit and South American offerings range at \$4.75@\$4.80 unit.

Candelilla Wax—Is again easier this week. A heavy supply coupled with curtailed demand is the cause for a reduction to 27c@28c

Carnauba Wax — No. 1 yellow and No. 2 regular are higher this week. Regular price are 60c@ 62c lb. and 55c@56c lb. respectively and the change is merely a recovery due to a better demand. The remaining grades are unchanged in prices and position.

Fish Scrap — Supplies of this material are very scarce as a result of the continued poor fishing results. This week's market is somewhat stiffer, the low price remaining the same at \$5.25 unit but some sales have been made as high as \$5.50 unit. The end of the fishing season is approaching and no reduction in price is likely.

Gums, Varnish — The market for varnish gums is still without life and a few reductions were made. Batavia E seed is lower at 18c@ 18½c lb. Standard Batavia was lowered 2c lb.

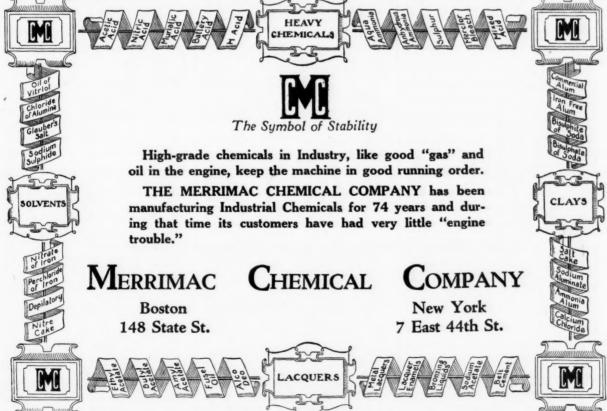
Japan Wax — This market is over supplied and quotations are soft at 17c@18c lb. The demand has not been up to expected proportions and further reductions seem possible.

Rosin — The local rosin market is featured with a better tone in the buying policy, but still below normal amounts. Current prices exdock are: B, D, \$9.15 E, \$9.20; F, G, H, I, K, \$9.25; N, \$9.60; WG, \$11.25; WW, \$13.00.

Valonia — Cups are now in a nominal position as there are no offerings. Beards are priced at \$60.00@\$62.00 ton and mixtures are offered in small quantity at \$59.00 @\$60.00 ton.

Osage Orange 51 deg. liquid Ib.	.07 :	.07%
Osage Orange 51 deg. liquid	.141/2:	.15
Paracouarone, 230 lb drums lb.	.12 :	.15
Paracouarone, 230 lb drums lb.	.12 :	.15
118-120 deg. M.P fb.	.08 :	.09
123-127 deg. M.P m.	.061/2:	.06%
128-132 deg. M.P Ib.	.07 1/2:	.07%
138-140 deg. M.P lb.	.08%:	.10
Phosphate Acid, 16% Bulk wks ton	:	9.00
Florida Pebble 68%ton	3.00 :	3.15
Florida Pebble 70%ton	3.50 :	3.65
Florida Pebble, basis 75-74% ton	4.00	5.00
Florida Pebble, 75%ton	:	5.75
Tenessee, 72%	:	5.00
Phosphate Acid, 16% Bulk wks ton	:	.70
Destructive dist	.63 :	.64
Plaster Paris, tech., 250 b bbls bbl.	0.00	3.30
Pumice Stone, lump 250 h bbls h.	.041/2:	.06
Powdered, 350 lb bbls lb .	.04 : .02 1/2 :	.03
OUEBRACHO, 35% liquid the D	03 .	.031/2
450 lb bbls c-1 lb.	.031/2:	.04
Solid 63% 100 m balesciff.	.04 :	.05
Clarified, 64% bales D.	:	.05
Quercitron, 51 deg. 450 lb bbls . lb .	.061/2:	.07
Quercitron, bark, roughton	.10	14 00
Groundton	34.00 :	35.00
QUEBRACHO, 35% liquid tks	or net)	9.25
D9.15 K		.9.25
E9.20 M		9.35
G9.25 WG		11.25
(Sold in 600 h bbls net quotet	ione based	13.00
unit of 280 b) Rosin 0il first run 50 gal bbls. gal. Second run bbls gal. Second run bbls gal. Rotten Stone lump imp bbls b. b. Lump selected, bbls b. b. Powdered, bbls b. b. Powdered, bbls b. b. Sage Flour 150 b bags b. Saperfine bags b. b. Superfine bags b. Bone dry, bags b. Spruce, 25% liquid tanks, wks b. Spruce, 25% liquid tanks, wks b. Powd, 50% 100 b bags wks b. Starch, rice, 200 b. Com Powd, 140 bags -1 1.00 b. Pearl, 140 bags 1.00 b. Potato domestic, 290 b bgse-1 b. Imported bags duty paid b. Wheat, dom., thick bags b. Thin, bags b. Thin, bags b. Sumac, extract, liq 450 b bbls b. C.P., 450 b bbls b. D. C.P., 450 b bbls b. b. Thin, bags b. C.P., 450 b bbls b. b. C.P., 450 b bbls b. b. Thin, bags b. C.P., 450 b bbls b. b.	Julis Daseu	011 &
Rosin Oil first run 50 gal bblsgal	:	.57
Second run bblsgal.	:	.62
Lump selected, bbls To.	.07 :	.08
Powdered, bbls ID.	.02 :	.05
Sage Flour 150 m bags m	.04 1/4:	30.00
Shellac, T. N., bags Ib.	.49 :	.50
Garnet, bags	.49 :	.52
Bone dry, bags	.58 :	.61
Spruce, 25% liquid tanks, wks Ib.	.01 :	.011/2
Powd, 50% 100 h bags wks h.	.03	.02 1/4
Starch, rice, 200 hbbls.	.091/2:	.10
Pearl, 140 b bags 100 b .	• • • • •	2.97
Potato domestic, 200 lb bgsc-1 lb.	.06 :	.061/4
Wheat, dom., thick bags	.06 1/4:	.06 1/3
Thin, bags	.091/2:	.10
Sol. Potato	.08 :	.081/2
Sumac, extract, liq 450 lb bbls lb. CP., 450 lb bbls	.00	.101/3
Stainless, 600 m bblsm.	.11 :	.11 1/2 nom.
		72.00
Virginia, 150 lb hage ton	55 00 .	60.00
TALC, Italian 220 lb bags NY ton Refined, white bagston French, 220 lb bgs NYton Refined, white bagston Dom., crude 100 lb bags NY ton Refined 100 lb bags NY ton	50.00	50.00 55.00 35.00 45.00 15.00
French, 220 lb bgs NYton	30.00 :	35.00
Refined, white bagston	38.00 :	15.00
Refined 100 lb bags NY ton	16.00 :	18.00
Tankage, ground NY	4.75 &	.10
So. Am. cifunit	3.75 & 4.75 &	.10
Tapioca Flour, high grade bes Ib	.04 1/4 :	.05
		.05 .04 13.50 15.50
Retort bblsbbl.	13.50	15.50
Tar, Klin-burnt bbl. Retort bbls bbl. Tripoli, 500 fb. bbls 100 fb. Turpentine Spiritsbls gal. Wood steam Dist bble	2.00	0 01
		.47
Valonia Cups 30-31% tanton		: nom
Beard, 42% ton bagston Mixture bark bagston	60.00 :	$62.00 \\ 54.00$
Wattle Bark, bgston	59.00	60.00
Wattle Bark, bgs	***	.05%
Whiting 200 m bags e-1 wks 100 m. Alba bags NY e-1ton	***	1.25
Gilders, bags NY e-1100 B.	•••	1.35





Import Manifests

IMPORTS AT NEW YORK October 4 to 11

October 4 to 11

ACIDS—Cresylic, 1 drum Sherlow Chem Co., Manchester; 20 drs., Tar Acid Ref. Co., Liverpool; 35 drs., order, Liverpool; Formic, 368 carboys, order, Hamburg; 80 carboys, Roessler & Hasslacher Chem Co., Hamburg; 95 brls., Innis Speiden & Co., Hamburg; Oxalic, 13 cks., Roessler & Hasslacher Chem Co., Rotterdam; Sludge, 25 brls., Schliemann Co., Hamburg; Tartaric, 130 cks., W. Neuberg, Rotterdam; 25 kegs, Innis Speiden & Co., London

AMMONIUM SALTS—Carbonate, 60 cks., Hans Hinrichs Chem Corp., Rotterdam; 20 cks., J. C. Wiarda Co., Glasgow; Chlo-ride, 10 cs.. Solvay Sales Corp., Liver-pool; Nitrate, 161 cks., R. W. Greeff & Co., Oslo

ARGOLS-303 bgs., C. Pfizer & Co., Bue-

nos Aires
BARYTES—900,000 kilos, Ore & Chemical
Corp., Rotterdam; 250 bgs., C. J. Osborn & Co., Bremen

BONE MEAL-250 bgs., H. J. Baker &

Bro., Liverpool CALCIUM—Chloride, 14 drs., G. Dela-wanna, Rotterdam; Metallic, 6 cs., C. Hardy Inc., Havre

CAMPHOR—Synthetic, 200 cs., E. I. Du-Pont de Nemours Co., Hamburg; 185 cs., E. I. DuPont de Nemours Co., Rotter-

dam CARBON-Decolorizing, 220 bgs., L. A. Salomon & Bro., Rotterdam CASEIN-250 bgs., Innis Speiden & Co., Havre; 105 bgs., D. C. Andrews & Co., Hamburg; 440 bgs., Nat City Bank Bue-

Hamburg; 440 bgs., Nat City Bank Buenos Aires
CHALK—Block, 800,000 kilos, J. W. Higman & Co., Dunkirk; 550 tons, Ewing Fox & Co., Dunkirk
CHEMICALS—25 cks., Jungmann & Co., Hamburg; 77 drs., The Goldschmidt Corp. Rotterdam; 250 bgs., Whittaker Clark & Daniels, Rotterdam; 250 bgs., A. Klipstein & Co., Rotterdam; 35 cks., Whittaker Clark & Daniels, Rotterdam; 180 bgs., Rhodia Chem Co., Rotterdam; 14 cks., Chaplin & Bibbo, Rotterdam; 14 brls., Hummel & Robinson, Hamburg; 250 brls Hummel & Robinson, Hamburg; 250 brls Hummel & Robinson, Bremen; 50 cks., Stanley Doggett Inc., Rotterdam
CHINIDINE—3 cs., R. W. Greeff & Co., Rotterdam

CINCHONINE-2 cs., R. W. Greeff & Co.,

Rotterdam COCHINEAL-34 bgs., H. Kohnstamm &

Rotterdam
COCHINEAL—34 bgs., H. Kohnstamm & Co., Liverpool
COLORS—147 pgs., General Dyestuff Corp., Rotterdam; 182 pgs., General Dyestuff Corp., Rotterdam; 12 pgs., General Dyestuff Corp., Rotterdam; 12 pgs., General Dyestuff Corp., Rotterdam; 18 pgs., General Dyestuff Corp. Rotterdam; 48 pgs. Ciba Co. Havre; 3 cks., B. Bernard Inc., Antwerp; 3 cks., Carbic Color & Chemical Co. Havre; 15 cks., Geigy Co., Havre; 13 brls., Carbic Color & Chemical Co., Havre; 35 cks., Geigy Co., Havre; 13 brls., Carbic Color & Chemical Co., Havre; 35 cks., Reichard Coulston Inc., Havre; 4 es., B. F. Drakenfeld Co., Bremen; 13 cks., R. Faust, Rotterdam; 6 cks., Reichard Coulston Inc., Havre; Bronze Powder, 21 cs., T. D. Downing & Co., Hamburg; 6 cs., Gallagher & Ascher, Hamburg; 10 cs., L. Uhlfelder & Co. Bremen; 2 cs., T. D. Downing & Co., Hamburg; 6 cs., H. Behlen & Bro., Hamburg; 16 cs. Hensel Bruckmann & Lorbacher, Bremen; 22 cs., B. F. Drakenfeld & Co., Bremen; 4 cs., P. C. Kuyper & Co., Liverpool; 4 cs., P. C. Kuyper & Co., Liverpool; 4 cs., P. H. Petrey & Co., Bremen; Earth, 57 cks., Reichard Coulston Inc., Bremen Inc., Bremen
EPSOM SALTS-250 bgs., A. Klipstein &

EXTRACTS—Quebracho, 3141 bgs., Tannin

Corp., Buenos Aires GELATINE—48 brls., 25 kegs, H. A. Sin-

GELATINE—48 bris., 25 kegs, H. A. Sinclair, Rotterdam
GLUE—24 cks., 40 bls., T. M. Duche & Sons, Antwerp; 20 cks., Susquehanna Silk Mills, Antwerp; 268 bgs., J. J. Shore & Co. Rotterdam; 2 bls., Arabol Mfg. Co., Hamburg; 60 cks., Pfaltz & Bauer, Reemean

GLYCERIN—60 cks., Hercules Powder Co., Rotterdam; 26 drs., McKesson & Robbins, Rotterdam; 50 drs., Union Explosive Co., Rotterdam; 40 drs., Parsons & Petit, Rotterdam
GUMS—Arabic, 254 bgs., T. M. Duche & Sons, Port Sudan; 150 bgs., Brown Bros., & Co., Port Sudan; 150 bgs., Irnnis Speiden & Co., Port Sudan; 155 bgs., Innis Speiden & Co., Port Sudan; 155 bgs., Thurston & Braidich Port Sudan; 250 bgs., T. M. Duche & Sons. Port Sudan; 150 bgs., Thurston & Braidich Port Sudan; 250 bgs., T. M. Duche & Sons. Port Sudan; 150 bgs., Barclays Bank, Port Sudan; 150 bgs., G. W. S. Patterson Co., Antwerp; 199 bkts., Sino Java Handel Inc., Macassar; 400 bgs., S. Winterbourne & Co., Antwerp; 134 bkts., Gravenhurst & Co., Macassar; 596 bkts., L. C. Gillespie & Co., Macassar; Damar, 75 cs., 64 bgs., Innes & Co., Singapore; 64 bgs., Innes & Co., Singapore; 64 bgs., Innes & Co., Singapore; 64 bgs., Paterson Boardman & Knapp, Batavia; 64 pgs., 75 cs., S. Winterbourne & Co., Singapore; 100 bgs. Paterson Boardman & Knapp, Batavia; 100 cs., Innes & Co., Batavia; 64 pgs., C. Gillespie & Sons, Singapore; 100 bgs. Paterson Boardman & Knapp, Batavia; 100 cs., L. C. Gillespie & Sons, Bombay; Kaurl, 12 cs., G. W. S. Patterson & Co., Auckland; 80 cs., Davies Turner & Co., Auckland; 90 cs., Davies Turner & Co., Auckland; 90 cs., Davies Turner & Co., Auckland; 90 cs., Davies Turner & Co., C., C., Bombay; Tragacanth, 14 bgs., F. Vliet Co., Hamburg; 4 cs., F. Vliet Co., Hamburg; 5 cs., F. Vliet Co., Hamburg; 5 cs., F. Vliet Co., Hamburg; 6 cs., F. Vli

Chile

IRON-OXIDE-40 brls., A. Kramer & Co.,

Malaga; 56 brls., C. K. Williams & Co.,

Malaga; 125 brls., C. J. Osborn, Malaga;

10 cks., Whittaker Clark & Daniels, Bremen;

10 cks., A. Kramer & Co., Liverpool;

20 cks., J. H. Nichols & Son, Liverpool;

21 cks., Reichard Coulston Inc, Liverpool;

10 obrls., Hummel & Robinson,

Malaga; 40 brls. Wishnick Tumpeer Inc.,

Malaga Malaga

LITHOPONE-500 cks. B. Moore & Co., Rotterdam; 75 cks., African Metals Corp., Antwerp; 300 cks., B. Moore & Co., Rot-

Rotterdam; 75 cks., African Metals Corp., Antwerp; 300 cks., B. Moore & Co., Rotterdam

LITMUS—1 brl., Merck & Co., Rotterdam

MANGANESE ORE—1049 bgs., Brown & Roese Port Antonio; 772 bgs., Kelley & Tennent, Port Antonio

METHANOL—299 drs., Kuttroff Pickhardt & Co., Rotterdam

MINERAL WHITE—767 bgs., Whittaker Clark & Daniels, Hull

OCHRE—7 cks., Fezandie & Sperrle, Glasgow; 240 cks., C. K. Williams & Co., Marseilles; 75 cks., F. L. Kraemer & Co., Bordeaux; 22 brls., Hummel & Robinson, Malaga; 40 cks., Wishnick Tumpeer Co., Marseilles; 81 brls., Reichard Coulston, Marseilles; 48 brls., Reichard Coulston, Marseilles; 40 brls., Wishnick Tumpeer Co., Marseilles; 186 cks., Reichard Coulston Inc., Marseilles

OILS—Coconut, 4,466,091 bs., Philippine Refining Corp., Manila; 439 tons. Philippine Refining Corp., Manila; 439 tons. Philippine Refining Corp., Manila; Cod, 500 brls., Kidder Peabody & Co., Hull; 118 cks., Cook Swan & Young, Halifax; 5 cks., McKesson & Robbins, St. Johns; 300 cks., National Oil Products Co., Oslo; Codliver, 50 brls., E. M. Javitz & Son, Oslo; 50 brls., E. M. Javitz & Son, Oslo; 50 brls., F. Stearn & Co., Hamburg; Olive, 250 cs., F. Romeo & Co., Genoa; 55 cs., J. Petrocelli & Co., Genoa; 110 cs., Italian Imptg Co., Genoa; 250 cs., L Montagne Inc., Southampton; 50 brls., G. Lueders & Co., Nice; 50 cs., Aurora Imptg Co., Seville; 100 cs., P. Pastene & Co., Genoa; Palm, 1584 cks., D. Bacon, Liv-

Heavy Chemicals and Other Industrial Raw

erpool; Palm Kernel, 234 tons, J. Bibby & Son, Liverpool; 2 brls., R. Badcock & Co., Liverpool; Peanut, 7 brls., Lamont Corliss & Co., Rotterdam; Rapeseed, 25 brls., Smith Weihman Oil Co., Rotterdam; 25 cks., S. Blumenthal, Rotterdam; Seal, 100 cks., Bowring & Co., St. Johns; Sperm, 10 brls., National Oil Products Co., Glasgow; Sulfur, 100 brls., J. B. Dewsnap & Co., Piraeus; 100 brls., H. W. Peabody & Co., Piraeus
PLUMBAGO—700 bgs.,77 brls., C. F. Pettinos, Colombo; 40 bgs., International Ore & Metal Selling Co., Havre; 264 brls., Paterson Boardman & Knapp, Colombo

POTASSIUM SALTS—Caustic, 98 drs., Innis Speiden & Co., Rotterdam; 15 cs. Mallinckrodt Chem Works, Gothenburg; Chlorate, 1300 cks., Monmouth Chem Wks Hamburg; Nitrate, 508 bgs., Kuttroff Pickhardt & Co., Hamburg; 280 cks., Hummel & Robinson, Hamburg; Perchlorate, 250 brls., Anglo So. American Trust Co., Hawre; Prussiate, 100 kegs, American Cyanamid Co., Hamburg QUICKSILVER—350 flasks, C. L. Huisking Inc., Alicante; 200 flasks, Lo Curto & Funk, Alicante; 400 flasks, H. W. Peabody & Co., Alicante QUINIDINE—3 cs., R. W. Greeff & Co., Rotterdam POTASSIUM SALTS-Caustic, 98 drs., In-

body & Co., Alicante
QUINIDINE—3 cs., R. W. Greeff & Co.,
Rotterdam
SAL AMMONIAC—144 cks., Kuttroff Pickhardt & Co., Rotterdam; 67 cks., Monmouth Chem Cor. Rotterdam
SHELLAC—674 bgs., Ralli Bros., London;
900 bgs., Farmers Loan & Trust Co., Calcutta; 200 bgs., 60 cs., Rogers Pyatt
300 bgs., Mac Lac Co., Calcutta; 100 bgs.,
Bank of London & So American, Calcutta; 200 bgs., 60 cs., Rogers Pyatt
Shellac Co., Calcutta; 134 bgs., Ralli
Bros., Hamburg
SODIUM SALTS—Caustic, 52 cs., Mallinckrodt Chemical Works, Gothenburg; 5
cs., Pfaltz & Bauer, Gothenburg; Cyanide, 500 cs., Roessler & Hasslacher Chem
Works, Rotterdam; 420 cans, C. Hardy
Inc., Havre; Hydrosulfite, 20 drs., order,
Hamburg; Nitrate, 205 bgs., R. W. Greeff
& Co., Oslo, 12,555 bgs., W. R. Grace &
Co., Iquique; Nitrate, 50 cks., Kuttroff
Pickhardt & Co., Rotterdam; Phosphate
Diabasic, 278 cks., Rhodia Chem Co.,
Rotterdam; Silico Fluoride, 250 brls.,
Superfos Co., Rotterdam
TAPIOCA—234 bgs., Catz American Co., Superfos Co., Rotterdam
TAPIOCA-234 bgs., Catz American Co.,

Batavia
TARTAR—234 bgs., C. Pfizer & Co., Triieste; 1865 bgs., Tartar Chem Works, Marseilles; 90 bgs., C. Pfizer & Co., Lisbon; 617 bgs., C. Pfizer & Co., Trieste; 145 bgs., Tartar Chem Works, Lisbon; 372 bgs., Tartar Chem Works, Lisbon; 372 bgs., Tartar Chem Works, Tarragona; 462 bgs., C. Pfizer & Co., Alicante; Cream, 14 cks., Hans Hinrichs Chem Corp., Marseilles
TEA WASTE—1296 bgs., W. Schall & Co., Calcutta

Calcutta

WAX—Bees, 16 bgs., W. Schall & Co.,
Hamburg; 6 cs., J. J. Julia & Co., Monte
Cristi; 10 cks., W. Schall & Co., Pto
Plata; 16 bgs., Mecke & Co., Azua; 16
bgs., Selma Mercantile Corp., Azua;
Ozokerite, 426 bgs., J. Dick, Hamburg
WHITING—1998 brls Nat City Bank, Antwerp; 900 bgs., Coupey Fils, Dunkirk;
2000 bgs., Scott L. Libby Corp., Havre;
406 bgs., Chaplain & Bibbo, Hamburg
WOODFLOUR—291 bgs., Burnet Co., Gothenburg; 500 bgs., A. Kramer & Co., Rotterdam; 562 bgs., State Chem Co., Rotterdam;

wool GREASE—52 cs., Borne Scrymser & Co., Antwerp; 75 brls., R. Badcock & Co., Liverpool

IMPORTS AT PHILADELPHIA

Sept. 28 to Oct 5

Sept. 28 to Oct 5

ACIDS—Cresylic, 50 drums, order, Rotterdam; 25 drums, order, Hamburg; Formic 84 demijohns, order, Hamburg; 74 carboys, order, Rotterdam; 20 casks, order, Rotterdam; 10 casks, order, Rotterdam ARSENIC—50 casks, J. H. Schroder Banking Corp., Hamburg

BAUXITE—2,261 tons, Republic Mining

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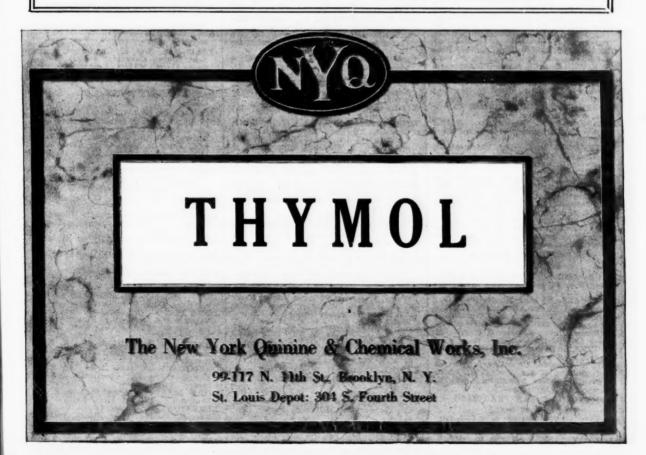
The EMERY CANDLE Co.

St. Bernard - Cincinnati, Ohio

New York Office

233 Broadway - New York City

Phone - Whitehall 4573



& Mfg. Co., Georgetown Demerara; 1,605 tons Republic Mining & Mfg Co., George-town, Demerara BONE MEAL—3,716 bags, Ralli Bros.

Karachi BRONZE POWDER—3 cases, M. Rice Co., Bremen; 2 cases, Koons Wilson & Co.,

Hamburg CAUSTIC POTASH—5 drums, Superfos Co. Hamburg: 100 drums, order, Hamburg CHEMICALS—5 drums, O. G. Hempstead & Son. Bremen; 500 bags, order, Hamburg; 300 kegs, order, Hamburg; 80 balloons, Roessler & Hasslacher Chem Co. Rotterdam; 24 casks order, Rotterdam; 280 casks, order, Rotterdam; 59 casks, order, Rotterdam; 84 casks, order, Rotterdam CLAY—China, 3140 tons, Various consignees, Fowey; Sagger, 100 tons, various consignees, Fowey

CLAY—China, 3140 tons, Various consignees, Fowey; Sagger, 100 tons, various consignees, Fowey; Sagger, 100 tons, various consignees, Fowey EPSOM SALTS—111 bags order, Hamburg; 200 kegs, order, Hamburg FERRO ALLOY—432 bags, Truempy, Faesy & Besthoff Inc, Genoa; 45,360 kiloand 455 bags, Truempy, Faesy & Besthoff Inc., Genoa FLUORSPAR—504,272 bbls, Standard Bk. of South Africa Ltd., Durban GLAUBER SALTS—100 bbls., order, Hamburg

burg CLYCERIN—130 drums, Harshaw, Fuller & Goodwin Co., Hamburg; 90 casks, order Marseilles; 47 casks, order, Barcelona GYPSUM—1,324 bags, Phila-Girard National Bank, Bremen LITHOPONE—2 casks, A. Klipstein & Co., Hamburg

LITHOPONE—2 casks, A. Klipstein & Co., Hamburg

MAGNESITE—100 bbls., Brown Bros & Co. Rotterdam; 100 bbls., Chatham Pheonix Bank & Trust Co., Rotterdam

MOLASSES—1,300,000 gals. Publicker Comml. Alcohol Co., Antilla

MYROBALANS—6,884 pockets, Standard Bank of South Africa, Ltd. Calcutta; 4,000 pockets, Standard Bank of South Africa Ltd., Calcutta; 7,195 pockets, Standard Bank of So. Africa Ltd., Calcutta; 7,195 pockets, Standard Bank of South Africa Ltd., Bombay

OILS—Codliver, 200 bbls., order, Hamburg; 50 bbls., order, Hamburg; 50 bbls., order, Hamburg; 50 cases, order, Leghorn; 50 cases, order, Sulfur, 100 bbls., order Genoa; 200 bbls., Banca Comml Italia Trust Co., Palermo.

ORES—Chrome, 969 782 lbs., Brown Bros.

bols., Banca Commi Italia Irust Co., Palermo RES—Chrome, 969.782 lbs., Brown Bros & Ca., Lourenco, Marques; Iron, 200 tons, C. K William & Co, Malaga: Manganese, 2000 tons, E. J. Lavino & Co, Calcutta; Pyrites, 3450 tons, Krebs Chemical Co., Antwerp; 8671 tons, The Pyrites Co., Huelva

PHOSPHOROUS TRICHLORIDE-23 bot-

Huelva
PHOSPHOROUS TRICHLORIDE—23 bottles, order, Hamburg
POTASH—69 bbls., Brown Bros & Co.,
Hamburg; Carbonate, 24 casks, order,
Rotterdam
SHELLAC—350 bags, order, Calcutta; 860
bags, order, Calcutta; 1166 bags, order,
Calcutta; Garnet, 134 bags, New York
Trust Co., Bremen
SODIUM SALTS—Cyanide, 340 drums, order, Rotterdam; Fluoride, 12 casks, order,
Hamburg; 68 bbls., order, Hamburg;
Prussiate, 42 casks, order, Rotterdam;
Suffite, 20 drums, order, Hamburg
SUMAC—140 bags, order, Hamburg
SUMAC—140 bags, order, Rotterdam;
Suffite, 86 bbls., order, Rotterdam; Sulfate, 86 bbls., order, Rotterdam

IMPORTS AT BOSTON October 1 to 8

OLOR-Aniline, 9 drs., 5 cks., 3 kgs., I cs., Dyestuff Corp. of America, Liver-COLOR-

pool
CHEMICALS—125 bags, Rhodia Chem Co.,
Rotterdam; 50 cks., Rhodia Chem Co.,
Rotterdam; 78 cks., order, Rotterdam;
300 bgs., Paul Uhlich Co., Rotterdam; 80
balloons, 25 cks., Roessler & Hasslacher
Chem Co., Rotterdam
GLAUBER SALTS—100 cks Kuttroff Pick-

SODIUM—Cyanide, 372 drs., order, Liverpool; Sulfide, 35 drs. Irving M. Sobin, Rotterdam; Yellow Prussiate, 9 cks., A. Klipstein Co., Rotterdam

IMPORTS AT SAN FRANCISCO Sept. 24 to Oct. 1

ACID-25 bls., Mailliard & Schmiedell, Hamburg
ARSENIC-100 cases, Edward L. Eyre &

Co., Kobe BARYTES-57 casks, Bank of California,

Exports Chemicals, Oils and Fats

EXPORTS AT NEW YORK

ACETATE-Amyl, 6 drs., September, 2,

EXPORTS AT NEW YORK

ACID—Acetic, 1 csc., Sept. 13, Montevideo; Boric, 3 bbls., Sept. 22, Cienfuegos; Carbolic, 1 csc., Sept. 13, Tumaco; Glacial Acetic, 20 cts., Sept. 13, Tumaco; Glacial Acetic, 20 cts., Sept. 6, Cartagena; 12 cs., Sept. 28, Perth; 228 cts., Sept. 21, Vera Cruz; Hydrochloric, 10 cs., Sept. 20 Manila; Nitric, 4 cs., Sept. 2 Pto Colombia; Phosphate, 20 bgs., Sept. 2, Rio de Janeiro; Sulfuric, 7 cs., Sept. 20 Manila; 2 carboys, Sept. 21, Sekondi ALCOHOL—Wood, 30 drs., Sept. 6, Pto Colombia; 20 cs., August 30, Santa Marta AMMO PHOS—320 bgs., Sept. 20 Honolulu AMMONIUM—Anhydrous, 10 cyls., Sept. 2, Pto Colombia; 100 cyls., Sept. 16, Buenos Aires

BRONZE POWDER—6 cs., Sept. 2, Buenos Aires EXPORTS AT NEW YORK

Aires
CALCIUM—Carbide, 100 drs., Sept. 7, Pto
Cabello; 100 drs., Sept. 7, Maracaibo;
1120 drs., Sept. 20, Manila; 20 drs., Sept.
22, Pto Colombia; 600 drs., Sept 20, Honolulu; 900 drs., Sept 21, Vera Cruz; 411
drs., 50 cs., Sept. 21, Vera Cruz; 411
drs., 50 cs., Sept. 21, Vera Cruz; CARBIDE—10 drs., Sept. 7, Maracaibo
CARBON—Bisulfide, 20 drs., Sept. 28,
Perth; Black, 32 cs., Sept. 23, London;
Tetrachloride, 2 drs., Sept. 28, Perth
COPPER—Sulfate, 100 kgs., Sept. 13, Buenos Aires

CYANIDE—200 drs., Sept. 28, Fremantle; 1009 drs., Sept. 21, Vera Cruz; 454 drs., Sept. 21, Vera Cruz; UPHENYLGUANIDINE—11 cs., Sept. 9,

Liverpool EPSOM SALTS-10 kegs, Sept. 21, Vera

EXTRACT-Logwood, 80 cks., Sept. 23,

EXTRACT—Logwood, 80 cks., Sept. 23, Glasgow
FORMALDEHYDE—12 cs., Sept. 20, Manila; 158 bbls., Sept. 23, London
GLAUBER SALT—8 cs., Sept. 16, Pto Colombia; 15 bbls., Sept. 22, Cientuegos; 10 cs., Sept. 16, London
GRAPHITE—10 bbls., Sept. 26, Tarafa; 6 bbls., Sept. 16, London; 10 kgs., Sept. 21, Vera Cruz; 5 cs., Sept. 21, Rotterdam
GUM—Arabic, 5 bgs., Sept. 21, Rotterdam
GUM—Arabic, 5 bgs., Sept. 7, Pto Cabello; Copal, 249 bgs Sept. 27, Antwerp; Tragacanth, 11 bgs., Sept. 27, Antwerp; Tragacanth, 11 bgs., Sept. 23, Havana; 100 cs., Sept. 23, Havana
OILS—Castor, 6 cs., August 30, Cristobal; Coconut, 100 drs., Sept. 21, Havana; Linseed, 119 drs., Sept. 21, Havana; 115 drs., Sept. 23, Havana; Soya Bean, 15 drs., Sept. 15, Santiago
LINSEED OILCAKE—8400 bgs., Sept. 8,

Rotterdam; 10,500 bgs., Sept. 1, Rotterdam; 635 bgs., Sept 9, Liverpool; 1317 bgs., Sept. 21, Antwerp; 3500 bgs., Sept. 22, Antwerp; 276 bgs., Sept. 27, Antwerp; 4574 bgs., Sept. 23, Liverpool; 400 bgs., Sept. 7, Rotterdam; 15,500 bgs., Sept. 21, Rotterdam

LITHOPONE—160 bls., Sept. 28, Sydney MALT—562 bgs., Sept. 2, Rio de Janeiro NICKEL—Oxide, 174 bls., Sept. 8, Rotter-

PHENOL—1 bbl., Sept. 12, Rotterdam POTASSIUM SALTS—Caustic, 15 drs Sept 16, Buenaventura; Iodide, 37 cs., Sept. 23, London

ROSIN-10 drs., Sept. 23, London; 50 bbls., Sept. 7, Pto Cabello

SALTPETRE—5 kgs., Sept. 7, Maracaibo SILICON DIOXIATE—6 bls Sept. 16, Lon-

SILICON DIOXIATE—6 bls Sept. 16, London

SODIUM SALTS—Ash, 100 bbls., Sept. 7, Pto Cabello; 25 bbls., Sept. 23, Glasgow; 70 bbls., 300 kgs., Sept. 27, Rotterdam; Benzoate, 1 bbl., August 30, Pto Colombia; Bicarbonate, 3 cs., Sept. 7, Curacao; 15 kgs., Sept. 2, Pto Colombia; Caustic, 29 drs., Sept. 16, Buenos Aires; 150 drs., Sept. 23, Pernambuco; 250 cs., 40 drs., Sept. 23, Havana; 28 drs., Sept. 16, London; 50 drs., Sept. 16, Tto Colombia; 12 drs., Sept. 15, Guantanamo; 5 drs., August 30, Jamaica; 12 drs., Sept. 23, Havana; Hyposulfite, 10 kgs Aug 30, Cristobal; 20 kgs., Sept. 2, Pto Colombia; 25 kgs., Sept. 20, Manila; Perporate, 10 kgs., Sept. 21, Vera Cruz; Sal, 15 bbls., Sept. 2, Sept. 22, Santa Marta; Silicate, 25 drs., Sept. 16, Buenaventura; 48 bgs., August 30, Pto Colombia; 10 drs., Sept. 16, Trieste; 55 bls., Sept. 16, London; 4 bls., Sept. 23, London bls., Se London

STEARINE PITCH-280 drs., Sept 27, Ant-

TALC-6 cs., Sept. 22, Cienfuegos; 8 bgs., Sept. 2, Pto Colombia; 4 bgs. Sept. 2, Santa Marta; 140 bgs., Sept. 9, Liverpool; 280 bgs, Sept. 27, Liverpool; 46 cs., Sept. 23, London

ULTRAMARINE BLUE-4 bbls., Sept. 6,

ZINC—Oxide, 194 bls., Sept. 7, Rotterdam; 20 bls., Sept. 8, Rotterdam; 6 kgs., Sept. 13, Buenaventura; 6 kgs., Sept. 7, La Guaira; 200 bls., Sept. 16, London; 10 kgs., Sept. 21, Vera Cruz; Stearate, 13 bbls., Sept. 13, Buenos Aires; 4 bbls., Sept 7, La Guaira

CHEMICALS—59 drums, Anglo & London Paris National Bank, Hamburg; 27 casks, Order, Hamburg; 68 drums, order, Hamburg

Hamburg
CLAY—100 casks, order, Bremen
COPRA—1230 tons, Kidder, Peabody Acceptance orp., Menado; 129 tons, Kidder,
Peabody Acceptance Corp., Davao; 106
tons, El Dorado Oil Works, Davao; 147
tons, Kidder Peabody Acceptance Corp.,
Zamboanga; 284 tons, El Dorado Oil
Works, Zamboanga; 408 tons, Vegetable
Oil Corp., Jolo; 1341 tons, El Dorado Oil
Works,, Cebu; 583 tons, El Dorado Oil
Works, Masbate; 2476 sacks, Atkins Kroll
& Co., Suva; 781 sacks, Great Pacific
Co., Suva; 1445 sacks, Bank of New South
Wales, Suva

Co., Suva; 1945 Sakes, Balk of Cali-Wales, Suva

EPSOM SALTS—367 bags, Bank of Cali-fornia, N. A., Hamburg

GRAPHITE—375 bags, Mitsui & Co., Kobe

GUM—Copal, 141 cases National City Bank

of New York, Macassar

KAPOC—100 bales, H. W. Peabody, Soura-baya; 400 bales, Burns, Philp & Co.,

Hongkong

baya; 400 bales, Burns, Finip Co., Hongkong
OAKUM—20 bales, order, Kobe
OIL—Codliver, 100 bbls., Wilbur Ellis
Co., Kobe; Wood, 600 tons, Pacific Orient Co., Shanghai
PHOSPHATE—250 bags, order, Antwerp
TAPIOCA—Dust, 126 bags, Hoyt, Shepston & Sciaroni, Sourabaya
WAX—Paraffin, 640 boxes, Shell Co, Balikapappan

IMPORTS AT NEW ORLEANS Sept. 30 to Oct 7 1927

BENZINE-9137 tons, N. O. Refining Co. Curacao
BAUXITE—2728 tons, Republic Mining Co.
Georgetown; 2523 tons, Republic Mining
Co., Paramaribo
GUM—Chicle, 623 bales Wm. Wrigley,

Frontera MOLASSES-1,640,357 gals. Dunbar Molas-

ses Co., Havana POTASH-Caustic, 200 drums, order, Bre-

men
SALTPETRE—1816 sacks, order, Hamburg
BALTIMORE IMPORTS
Sept. 30 to Oct. 6
Sone MEAL—527 bags, 99,539 lbs., H. J.
Baker & Bro., Ambridge, Rotterdam; 900
bags, R S. Mueller Co., West Eldara,
Antwerp
CHALK—1,000 bags, 111,650 lbs., A. Klipstein & Co., New York, West Eldara,
Antwerp

Antwerp
CHEMICALS—30 casks, 18,454 lbs., Roessler & Hasslacher Chemical Co., Ambridge, Rotterdam
HORN MEAL—729 bags, 60 tons F. H.
Shallus Co., City of Flint, Leith
LIMESTONE—1,000 bags, 110,000 lbs., William H. Masson, West Eldara Antwerp
MANGANESE ORE—1500 tons, Carnegie
Steel Ranger, Calcutta
SEED—Rape, 150 bags, 33,495 lbs, Baltimore & Ohio railroad, Ambridge, Rotterdam

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Magnesium Carbonate

Magnesium Oxide

Whiting

Benzol

Acetone

Methanol

Formaldehyde

Phenol

Chlor Phenols

Sulphuryl Chloride

Thionyl Chloride

Patents

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U. S., 10c U. S. Patent Office, Washington. British, draft on London, one shilling, British Patent Office, 25 Southampton Bldgs., Chancery Lane, W. C. 2, London. French one franc, Minister of Commerce & Industry, Paris. German, draft on Berlin, one mark, German Patent Office, Berlin.

Application date appears with each patent.

UNITED STATES PATENTS Issued Sept. 27, 1927.

1,643,301.—Treating Butter Cream with SO2. G. A. Gray, Cincinnati, O., assignor, M. B. Newburger, Covington, Ky. July

M. B. Newburger, Covington, Ky. July 16, 1923.

1,643,393.—Cyclohexyl Phthalates. E. E. Reid and G. L. Schwartz, assignors, E. L. Schwartz, assignors, E. I. duPont de Nemours & Co., Wilmington. July 15, 1922.

1,643,401.—Light Hydrocarbon Liquids. W. S. Yard and E. N. Percy, Oakland, Calif. Mar. 17, 1924.

1,643,428.—Anthraquinine Nitrosamine Compound. H. Tesche and A. Job, Elberfeld, Germany, assignors, Grasselli, Dyestuff Corp., New York. Oct. 12, 1925.

1,643,437.—Fabrik Cement. N. C. Amen, assignor, H. H. Randolph, Kansas City, Mo. July 10, 1924.

1,643,496.—Improving Aldehyde Resins. W. O. Herrmann H. Deutsche & W. Haehnel, Munich, assignors, Consortmier fuer Elektrochemische Industrie G.m.b.H., July 26, 1923.

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The industrial alcohol council appointed two weeks ago by Assistant Secretary Lowman of the Treasury, in charge of prohibition, to advise Dr. J. M. Doran, Commissioner of Prohibition, in his program of regulation of alcohol production, will be called to meet in the latter part of October, according to an announcement from the Bureau of Prohibition.

The members of the council are Dr. Martin H. Ittner, chairman, Industrial Alcohol Committee, American Chemical Society and chief chemist, Colgate & Co., Jersey City, N. J.,; Dr. Harrison E. Howe, Washington, D. C., editor, "Journal of Industrial & Engineering Chemistry"; H. S. Chatfield, New York City, chairman, Industrial Alcohol Commission, Paint, Oil & Varnish Assn.; A. Homer Smith, president Sharp & Dohme, Baltimore; Frank A. Blair, Household Products Corp., New York City; Samuel C. Henry, secretary, National Assn. Retail Druggists, Chicago: Frank J. Noonan, Noonan & Sons, Boston; Russell R. Brown, New York City, president, U. S. Industrial Alcohol Co.; George F. Dieterle, president, Federal Products Co., Cincinnati; C. Mahlon Kline, Smith, & French, Philadelphia; Fred S. Rogers, Middletown, N. Y., president, Flavoring Extract Manufacturers' Assn.; and Charles L. Reese, E. I. du Pont de Nemours Co., Wilmington, Del.

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SULFUR IN VOLATILE FUEL

A new method for determining sulfur in volatile fuels has been devised by Bureau of Standards for the purpose of providing a means for the more accurate measurement of sulfur which occurs in motor fuels and similar products, according to the Department of Commerce.

When a motor fuel contains a high percentage of sulfur, the products of combustion of the fuel contain a considerable amount of sulfur dioxide and sulfur trioxide. These two oxides combine with any water that may be in the crankcase to form acids which have a corrosive action on the bearings and cylinders with which they come in contact. By measuring the percentage of sulfur in motor fuels before purchase, it is possible to predict the performance of a fuel as regards corrosion, and to reject material which contains a dangerous amount.

The specifications of the United States Government for gasoline set a limit of one-tenth of one per cent for sulfur. Any amount over this limit is considered sufficient to cause rejection if submitted for Government purchase.

The Gas production in Spain in 1926 was 104,992,100 cubic meters, or an average production of 321 cubic meters per ton of coal, according to official statistics recently published in one of the leading newspapers of Madrid. The yield of byproducts included 207,751 tons of coke, 14,574 tons of pitch averaging 45 kilos to the ton of coal, 2,301 tons of ammonium sulfate, averaging 9 kilos to the ton) 164 tons of benzol (averaging 1.5 kilos to the ton) and 19 tons of light oils.

France now supplies its domestic market with sulfur dyestuffs and produces considerable quantities of indophenol, thiazine and indigo, despite the German claim of recovery of some ground in world markets in dyestuffs. This report comes from Consul in Charge H. C. Claiborne, Frankfort on Main, Germany, who adds, that to improve their Chinese market, the Germans have reduced the price of indigo and direct blue almost fifteen per cent.

Canadian Goodrich Rubber Co., King Street, Kitchener, Ont., has filed plans for the construction of a new three-story and basement mill, 100 x 125 ft., to cost more than \$250,000, with machinery.

Wausau Sulphate Fibre Co., Mosinee, Wis., is working on a one story addition to its plant.

Another complete chemically combined fertilizer, nitrophoska III, was put on the local market in August by the German Nitrogen Syndicate. According to Trade Commissioner William T. Dougherty, this is in addition to its two previous mixtures that were announced in December 1926. The new fertilizer presents another concentrated fertilizer substance, containing 16.5 per cent nitrogen, 16.5 per cent phosphoric acid, of which 15.2 per cent is water soluble and 1.3 per cent citrate-soluble, and 20 per cent pure potash. Thus, it is characterized by a comparatively high percentage of phosphoric acid.

The domestic price is 26.70 marks per 100 kilos product delivered anywhere within Germany. Nitrophoska I is priced at 26 marks per 100 kilos and Nitrophoska II, at 24.50 marks. Nitrophoska I has 17 per cent nitrogen, 12.7 per cent phosphoric acid, and 21.1 per cent pure potash. Nitrophoska II has 14.7 per cent nitrogen, 11.1 per cent phosphoric acid and 25.6 per cent potash. It is thus observed that while Nitrophoska II has 50.8 per cent and Nitrophoska II, 51.4 per cent, Nitrophoska III has 53 per cent available plant food.

CANADIAN RUBBER OUTPUT

Toronto, Ont., Oct. 6—Canadian rubber industry's gross production for 1926 amounted to \$86,508,137, an increase of \$8,278,563, or 10.58 per cent over 1925, according to a report of the Dominion Bureau of Statistics. The net value, however, decreased form \$39,840,222 in 1925 to \$36,605,948 in 1926 due to relatively high cost of materials during the latter year. Value of crude rubber used during this period was \$29,407,857. Total capital invested was \$62,661,702.

Aluminum sulfate is now being manufactured by the Argentine government for its own use, thus removing the country from the list of possible consumers. Chemical importers in Buenos Aires stated that, in the past, American manufacturers' prices were found to be higher than those of German firms, according to Assistant Commercial Attache H. B. MacKenzie.

Russia intends to resume her exports of alcohol and fusel oils. In order to reduce the overhead expenses these products will be exported from plants located in Southern Russia.

United States Finishing Co., Sterling Conn., is perfecting plans for the constructions of a new local silk-finishing mill, to cost about \$45,000.

ARGENTINE INSECTICIDES

Foreign manufacturers of prepared products face competition in the Argentine market from domestic factories producing insecticides from local and imported chemicals. The following statistics from Vice-Consul C. W. Gray, Buenos Aires show the amounts imported and the countries of origin:

Importation into Ar	gentina of	Arsenic
From	1924	1925
	Kilos	Kilos
Germany	228,241	371,969
Belgium	85,655	105,624
United States	29,026	72,209
France	4,882	,
Japan	24,344	
United Kingdom	18,641	10,844

390,789

560,646

Importation	into	Argentina of Powder	Insecticide
From		1924	1925
		Kilos	Kilos
Germany		30,018	9,627
Austria		216	1,070
Spain		7 130	17 355

TOTALS

	Kilos	Kilos
Germany	30,018	9,627
Austria	216	1,070
Spain	7,139	17,355
United States	10,819	9,996
France	3,035	5,323
Italy	11,677	16,996
Japan		214
United Kingdom	887	765
Uruguay		162
TOTALS	63,791	61,508

Importation Unground.	into A: (Azuire	rgentina brute. en	of Sulfur piedra)
From		1924 Kilos	1925 Kilos
United States		5,552,236 5,806,400	7,215,302 3,282,650
TOTALS		11 358 626	10 407 952

Imports of powdered sulfur in 1924 were 1,090,237 kilos, of which Italy supplied 1,068,154 kilos. In 1925, of the 886,535 kilos imported, Italy furnished 876,777 kilos. The United States furnished only 683 kilos in 1925 and none in 1924.

In the first six months of 1926, Argentina imported 229,270 kilos of arsenic for industrial uses, 19,476 kilos of insecticide powder, 13,478,892 kilos of unground sulfur, 510,058 kilos of powdered sulfur and 2,394,724 kilos of chemical and pharmaceutical products and substances. Later statistics are not yet available.

Fertilizer is used only in a narrow strip of Northern Honduras devoted to intensive banana culture and sugar cane growing. Banana lands are naturally alluvial deposits of great depth and richness. Many of these lands are flooded every year and obtain a deposit of silt which renews their life.'

Approximately 30,000 tons of Italian sulfur is being imported annually by Greece, but owing to lower prices and higher quality of the American product, the United States may eventually displace Italy as a source of supply.



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Plasticizers in Lacquers

(Continued from page 492)

substances can be used with all cellulose esters. The specific gravity of diphenylmethane is 1.060, that of diphenyl oxide 1.073; the former meets at 25 degrees C and the latter at 28 degrees C; the flame temperatures are 130 and 115 degrees C; the boiling temperatures are 260 degrees C in each case.

Phenylethyl Alcohol

Another plasticizer of value is phenylethyl alcohol, known as Plastoform II. This liquid has a pleasant odor, a little soluble in water and very easily soluble in the common organic reagents. It is a good gelatinizer of both cellulose acetate and nitrocellulose. This substance is stable and is not oxidized by exposure to air, as in the case of benzyl alcohol, which has been found to change into benzaldehyde by the action of atmospheric oxygen. The specific gravity of phenylethyl alcohol is 1.024, the flame temperatures 102 degrees C, the boiling point 220 degrees C, the acetyl number 341 and the molecular weight 122.

Still another interesting plasticizer is acetophenone, or phenylmethyl ketone. It bears the trade name Mittel AHN. It is a slightly yellowish liquid, of strong refractive properties, slightly soluble in water and possessing a pleasant odor. Its gelatinizing properties are very important, particularly for making cellulose acetate lacquers. Its specific weight is 1.031 at 15 degrees C, flame temperature 105 degrees C, boiling point 200 degrees C

and molecular weight 120 degrees C.

Cyclohexyl adipate is another plasticizer, just recently placed on the market which comes in the solid form. It is a white crystalline substance with a melting point of 38 degrees C. The boiling point of the technical product varies between 315 and 325 degrees C. The flame temperature is 196 degrees C. The substance is insoluble in water but easily soluble in organic solvents. It is almost odorless and practically non-volatile.

Diethyldiphenylurea (symmetrical) is a plasticizer which comes under the name of Mollit I. It is a white crystalline substance, possessing a slight odor, insoluble in water and soluble in alcohols and in alpiphatic and aromatic hydrocarbons. Its melting temperature is 72 degrees C, boiling point 325 to 330 degrees C and the

flame temperature is 150 degrees C.

Benzyl benzoate is a plasticizer of value for use in making cellulose acetate varnishes. It is found in the market under the name of Erganol. It is a colorless liquid with high refractive powers. It is insoluble in water and has a boiling point of 345 degrees C. The flame temperature is 148 degrees C, the density 1.035 at

15 degrees C.

Paratoluenesulphamide has at times been recommended for use as a plasticizing and softening agent in the manufacture of nitrocellulose and cellulose acetate lacquers and varnishes. Its value for this purpose is however doubtful and with the many plasticizers that can be used, it is perhaps inadvisable to experiment with a substance that does not give the desired results in the proper degree. The substance itself is soluble in hot water and it is separated from its solution when a large proportion of the substance is added to the nitrocellulose. It comes in the form of a white, crystalline powder and has a melting point of 136 degrees C. It is soluble in organic solvents.

Ethylacetanilide

Ethylacetanilide is also an interested plasticizer, which is sold under the name of Mannol. It is claimed to be a better plasticizer than camphor in the gelatinization of nitrocellulose. The fusion temperature of this substance is 52 degrees C and its boiling point 250 degrees C. The flame temperature is 108 degrees C. It has a peculiar (Continued on page 536)

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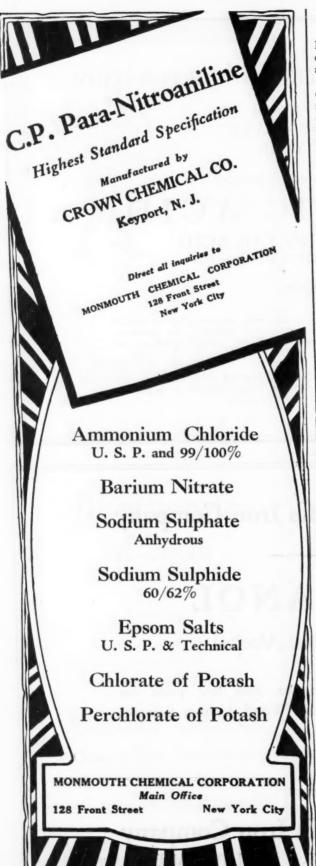
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CHEMISTRY'S BUSINESS GAUGES

(Continued from Page 496)

In other words, the net gain which he looks for in the continuous contest with his competitors. This he counts as the normal increase to be expected in the year to come.

With this as a starting point, he begins to consider the outside factors which are likely to come into play. And in most industries the factors which determine prosperity or the reverse which lie outside the control of the individual company outnumber those which are subject to control. Since we cannot dominate these outside factors, we must seek to anticipate them and make adjustments to meet them. Which of the multitude of outside factors will be given the most consideration depends upon the particular commodity involved. No two industries are affected in quite the same way by the same group of outside influences. Frequently the effects will vary as between two companies within the same industry.

Almost always it is desirable to know the general trend of business in this country. Are the people as a whole likely to be in position to buy more or less merchandise next year? Here we want to know the crop outlook, the status of industrial employment and its prospects, the situation in the money market, and the outlook for the more important industries. If the prospects are for a year of more than average prosperity, the management will advance its estimates accordingly. If the reverse, a conservative policy is indicated.

The greatest single need in the industrial field today is first, accurate knowledge as to consuming and producing capacity, and second, common sense enough to be satisfied with a fair share of the total amount of business to be had.

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Powder Manufacturers' Supplies and Fertilizer Materials of All Kinds (Continued from page 532)

saccharine odor and burns with a smoky flame.

Oxanilide is sold as a plasticizer for cellulose ester varnishes and lacquers under the name of Camphol. It is crystalline solid, without any odor and melts at a temperature of 245 degrees C. Its flame temperature is 320 degrees C.

An interesting substance from this standpoint is benzyl acetate. It is known on the market as Plastolin I and is used as a plasticizer. It is a water-white liquid with a pleasant fruity odor. The substance is insoluble in water but it can be mixed in almost any proportions with the ordinary run of organic solvents. It also exerts a very favorable swelling action on the cellulose ester, whether it is cellulose acetate or nitrocellulose. The specific gravity of the product is 1.061, the flame temperature 102 degrees C, the boiling point 215 degrees C, the molecular weight 150, the ester number of the pure product 373 and ester content 99.2 per cent.

Amyl Salicylate

Amyl salicylate is similarly a good plasticizer. It is a colorless liquid without any odor, insoluble in water but miscible in almost any proportions with the common organic solvents. The specific weight of the substance is 1.057, the flame temperature 132 degrees C, the boiling point 280 degrees C, the molecular weight 208, the ester number of the pure substance 269 and the content of ester in the commercial preparation, known as Plastolin II, 98.8 percent.

Paratoluenesulphonanilid has also been recommended as a plasticizer in nitrocellulose varnishes and lacquers. It is a solid, in crystalline form and has a melting point of 103 degrees C. It is very slightly soluble in hot water

(Continued on Page 540)

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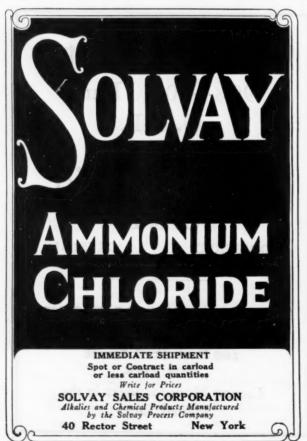
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(Continued from Page 492)

excellent plasticizer but highly poisonous. It is very questionable whether such a substance should be used at all and if used, great care must be taken to protect the workers and when the expense involved in providing ventilating and equipment and taking other precautions is figured up, it may well be found that there is no real advantage gained in using the substance after all and it may be set aside in favor of another less-poisonous but perhaps not so efficient a plasticizer. It will have been noted that the flame temperature has been given in most every case in the above discussion. This is a very important property of the plasticizer. For if the flame temperature is low, it means that the plasticizer is highly inflammable and hence the fire hazard great. The extra care and attention that the use of such a plasticizer demands may well negate any advantage that is gained in its use over a less effective substance but one which is not so inflammable.

The only way in which to be positively certain that the best results are being obtained with the materials that are used in the manufacture of lacquers is to continually experiment with new combinations and new substances, as they are introduced into the market. In this way only can the manufacturer be sure that he is keeping up with the progress being made in his industry and that he is taking due advantage of the new developments therein to produce a product which is the best that he can manufacture.

In conclusion it should be mentioned that the literature on lacquers and the materials, such as plasticizers and the like that are used in making them is constantly being added to. A careful study of trade papers will often lead to new ideas and new thoughts for experimentation and improvement in lacquer manufacture.

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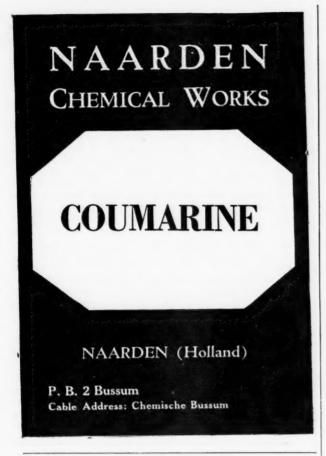
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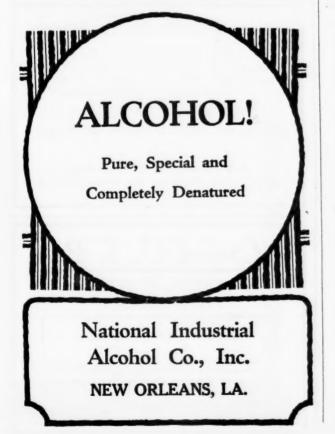
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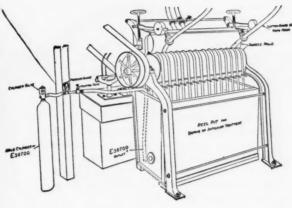
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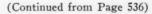
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but it is easily soluble in the common organic solvents, as well as in alkalies with which it forms salts. The substance is very well suited for use in the manufacture of cellulose acetate varnishes as in nitrocellulose lacquers for it has a very favorable gelatinizing action on the

Oxynaphthoic Anilide

Another interesting substance is 2:3-Oxynaphthoic acid anilide. This is a slightly yellowish, needle-crystalline substance which has a melting point of 242 degrees C and is insoluble in water. The behaviour of this substance towards the ordinary organic solvents, which are used in the manufacture of the cellulose lacquers, is very much different from the other plasticizers that are commonly employed in the industry. This substance is difficultly soluble in hydrocarbons, alcohols and esters, and on the other hand quite easily soluble in ketones, such as anon and methylanon. The solution of this plasticizer in such solvents can then be very readily and strongly diluted without the plasticizer being precipitated by the addition of alcohols, esters and hydrocarbons. The substance is by no means as good a plasticizer as the general run of substances used for this purpose and this is due to its slight solvent action on the cellulose esters. The high melting point of the substance is also a disadvantage from this standpoint. It is however possible to obtain good results with the substance when it is used in the correct manner.

Thus if the acetyl cellulose is first brought into solution with this substance in the presence of ketones, then the solution may be used as a starting point in the manufacture of lacquers, for it can be cut to any desirable degree by the addition of the usual solvents. It is in-

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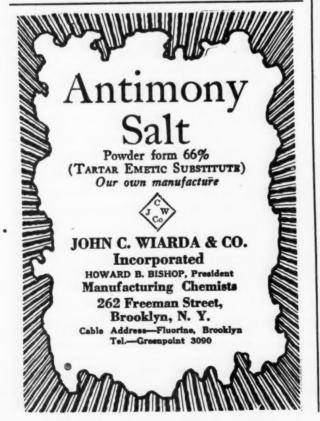
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HOLBROOK, MASS. and ST. LOUIS, MO. NEW YORK OFFICE-17 BATTERY PLACE teresting to note that this substance is the same as Naphthol AS, which plays such an important role as an azo developer in the fast dyeing of cottons.

Phenyl paratoluenesulphonate is still another plasticizer. It comes in the form of white, crystals of needle-like form which are very readily soluble in organic solvents. It is a good solvent and swelling agent for celluloseacetate. Its melting point is 93 degrees C, molecular weight 248 and ester number 226.

General Remarks

The above list of plasticizers and softening agents which have both a solvent, gelatinizing and swelling action on both cellulose acetate and nitrocellulose of either is not a complete list. There are many common substances that are used for this purpose, such as castor oil, camphor, and the like. The aforementioned list contains some of the newer plasticizers developed within very recent times. The extent of the list is a very clear indication of the difficulty that surrounds the purchaser of plasticizers in his choice of the proper substance, and this condition is being continually aggravated by the addition of new plasticizers. This development is not being depreciated, for it is necessary that research and experimentation be continued along these lines and that new materials be developed for this purpose for the ideal plasticizer has not been found. But it is well to caution the manufacturer of cellulose ester varnishes and lacquers in exercising great care in selecting his plasticizer. He must know what effect he desires to produce in his product and then choose the plasticizer which will give him the maximum results at least cost.

The selection of the plasticizer does not always depend solely on the efficacy and cost of the product. There are also other conditions which must be taken into consideration in making this selection. The question of hazard in use is important. A substance may be a very

(Continued on Page 438)

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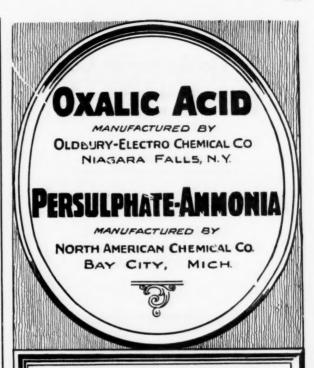
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The following tables show the French exports and imports of coal tar and its derivatives in the general classifications carried in the French foreign trade statistics. Exports and imports by countries are given for 1925, the latest available data, and by totals for 1926 and

the first six months of 1927.

	Exports 1925 Coal Tar	Bitumens and asphalts	Mineral Oil
Countries of	Metric tons	Metric tons	pitch Metric tons
destination	mento tono	11101110 10115	Dictite tons
Great Britain		6,512	
Germany	22,710	2,134	1,036
Netherlands		1,437	
Belgium-Luxemburg	25,832	5,283	1,419
Switzerland	2,747	1,224	11,166
Spain		3,969	
Morocco	2,081		
French colonies and protect	ctorates 2,383	1,980	3
Other foreign countries	888	2,007	1,021
Total	56,641	24,546	14,645
Value in francs	14,160,000	9,818,000	1,128,000
	Imports 1925 Coal Tar	Bitumens	Mineral Oil
		and asphalts	
Countries of origin	Metric tons		Metric tons
Great Britain	223,060	6,094	37
Germany	4,310	-,	•
Belgium-Luxemburg	15,229	4,225	46,342
Switzerland		7,357	
Netherlands			8,097
Italy		6,100	
United States		1,463	
Albania		1,107	1,197
Canada	3,571	3,053	206
Mexico	4 400	4,553	101.000
Other foreign countries	1,482	808	101,923
Total	247 (52	24 760	4,790,000
	247,652 in francs	34,760 14,722,000	11,123,000

(Continued on Page 546)

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(Continued from Page 492)

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Commercial Papers Ltd., Toronto, Ont. 20,000 shares of no par value, manufactures paper, Henry H. Shaver, Frank Z. Burroughs, John E. Kerr.

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Marvel Soap Products Ltd., Toronto, Ont. \$100,000 manufactures soaps, Minard Mastin, Oswald H. McCulloch, Frances C.

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Warren Lubricant Co. Ltd. Toronto, Ont. \$100,000 and 20,000 shares of no par value, manufactures lubricants. Goldwin C. Elgie, Joseph W. Foster, John J. Glass.
Charlot, paints drugs. E. J. Kelly, 320 Broadway, 10,000.
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Consolidated Chemical Co., San Francisco, Cal., \$2,000,000; Solomon Peiser, Milton Haas, John Stauffer.

THE INDUSTRY'S BOOKSHELF

(Continued from Page 494)

A LABORATORY MANUAL OF ORGANIC CHEMISTRY. By Hugh C. Muldoon D. Sc., Professor of Chemistry and Dean of Pharmacy School, Duquesne University. Cloth bound, 118 pages. Published by P. Blakiston's Sons & Co., Philadelphia, Pa.

While this work is primarily designed to accompany Mr. Muldoon's textbook of organic chemistry, it gives very detailed working directions for the primary student of organic chemistry, and may be adequately used without it. In this book, the author confines the exercises for those interested in the medical field and in addition to the many elementary experiments, the matter describes full laboratory operations in preparing type compounds. Important cautions are given, together with interesting discussions on esters, carbohydrates and alcohols.





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Local Market Conditions CHICAGO

General business conditions in this territory are characterized as good with chemical sales improving. There has not been any outstanding movement of any one item during the period under report but there has been more than average interest in the stearic acid and red oil position. There have not been any price changes of importance and collections are improving.

BOSTON

Both general and chemical business conditions in the New England territory are considered as quite good as the month of October opens. There has not been any outstanding activity in any one item and the only important price changes have been reductions in wood alcohol and formaldehyde in all directions. Otherwise the market lacked any degree of color, though sales are of a good steady nature. Collections are good.

DETROIT

Referring to your letter of October 4th we wish to advise that conditions in the Detroit territory have greatly improved in the past month. The automotive plants have not shown any material gain, but business in general is quite a little better.

Collections are very good. There are no new concerns of any importance in this territory that we know of, nor are there any removals.

NEWARK

General business conditions are improved, there is a more healthful tone, unemployment is decreasing somewhat and many feel that the next two or three months will show a better volume. The north Jersey district is becoming quite exercised over the situation relative to the new French tariff, some going so far as to say that if made effective as contemplated, it would put all of the mills on full time basis. While production and sales of dry colors are somewhat below last year, it is anticipated that there will be a little improvement in the next month.

The paint business this fall has been unusually good, with one or two large producers who have materially increased their sales over last year. The varnish trade, however, is not in a very healthy condition. All the Massachusetts

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Local Market Conditions

producers are purchasing from hand to mouth and there does not seem to be any immediate prospect of a substantial increase in business.

BUFFALO

General business conditions in Buffalo during the month of September were normal. The chemical business could be characterized as producing in good volume. Heavy chemicals have been drawn on contract in a very satisfactory manner. Considerable interest being shown recently in denatured alcohol, and prices are well maintained although some slight concessions are made by second hands. Movements of naval stores for this time of the year have been normal and some buyers are showing interest in futures of rosin and turpentine at present conservative levels. Glycerin market is weak. Hand to mouth buying on shellac due to the weak condition of the London and Calcutta markets. Vegetable oils moving in a routine way with buyers especially watching the situation on Chinawood oil which shows an easier tendency. Corn oil market in good demand at firm prices. Collections fairly satisfactory.

CLEVELAND

September seems to have been somewhat better than July and August in this territory and we believe that general conditions are showing an improvement. Every one is of the opinion that the last three months of this year will show a decided improvement over the third quarter.

PHILADELPHIA

The chemicals market for the past month has been extremely slow. There is no big demand for anyone particular chemical, neither has there been any radical price changes, although the market has been so slow prices have remained firm in the majority of cases. There is still a good demand for such items as: copper sulfate, castor oil, tri sodium phosphate and a somewhat larger demand for glycerine. However, the trade is hopeful and think the coming month will bring much better business.

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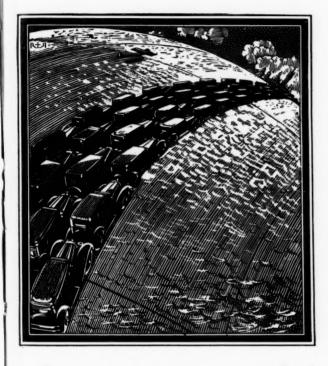
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